

QL
461
J867
ENT

Author and General Subject Index
To Volumes 1 to 50

JOURNAL OF THE NEW
YORK ENTOMOLOGICAL
SOCIETY

Prepared by
HARRY B. WEISS

PUBLICATION COMMITTEE

HARRY B. WEISS JOHN D. SHERMAN, JR.
T. C. SCHNEIRLA

Published by
THE NEW YORK ENTOMOLOGICAL SOCIETY
Lancaster, Pa., and New York, N. Y.
1946



OFFICERS OF THE NEW YORK ENTOMOLOGICAL SOCIETY

PRESIDENTS

- * Angell, G. W. J., 1893
- Barber, Harry G., 1916-1917
- Bell, Ernest L., 1933
- Becker, Geo. G., 1945
- * Beutenmuller, William, 1894 and 1900-1901
- Bird, Henry, 1927-1928
- Bromley, Stanley W., 1946
- Comstock, William P., 1943
- Curran, C. Howard, 1937
- * Davis, William T., 1929-1930
- * Groth, C. F., 1902-1903
- Kisliuk, Max, 1941
- Klotz, Alexander B., 1940
- * Leng, Charles W., 1907-1911
- * Love, E. G., 1898-1899
- * Lutz, Frank E., 1925-1926
- Melander, A. L., 1934
- Moore, William, 1938
- Mutchler, Andrew J., 1931-1932
- Osburn, Raymond C., 1912-1915
- * Palm, Charles, 1892 and 1897
- * Roberts, C. H., 1904-1906
- Ruckes, Herbert, 1936
- Schwarz, Herbert F., 1935
- Sherman, John D., Jr., 1921-1922
- Spieth, Herman T., 1939
- Teale, Edwin Way, 1944
- Weiss, Harry B., 1923-1924, 1942
- * Woodruff, Lewis B., 1918-1920
- * Zabriskie, J. L., 1895-1896

VICE-PRESIDENTS

- Barber, Harry G., 1914-1915
- Becker, Geo. G., 1944
- Bell, Ernest L., 1931-1932
- Bird, Henry, 1925-1926
- Bromley, Stanley W., 1945
- Comstock, William P., 1942
- Curran, C. Howard, 1936
- * Davis, William T., 1939
- * Groth, C. F., 1898-1899
- Hagan, Harold R., 1946
- * Harris, Edward Doubleday, 1918
- * Kearfott, Wm. D., 1901-1902
- Kisliuk, Max, 1940
- Leng, Charles W., 1903-1906
- * Love, E. G., 1897
- * Lutz, Frank E., 1923-1924
- Melander, A. L., 1933
- Moore, William, 1937
- Mutchler, Andrew J., 1929-1930
- Osburn, Raymond C., 1910-1911
- * Ottolengui, R., 1893
- * Palm, Charles, 1894-1896, 1900
- * Pollard, Charles L., 1912-1913
- Ruckes, Herbert, 1935
- Schwarz, Herbert F., 1934
- Sherman, John D., 1919-1920
- * Southwick, E. B., 1907-1909
- Spieth, Herman T., 1938
- Sturtevant, A. H., 1927-1928
- Teale, Edwin Way, 1943
- Weiss, Harry B., 1921-1922, 1941
- * Woodruff, Lewis B., 1916-1917

RECORDING SECRETARIES

- * Beutenmuller, William, 1892
- * Daecke, E., 1898
- * Joutel, Louis H., 1894-1897
- * Schaeffer, Charles, 1899-1901
- * Tunison, Charles, 1893

Society 26 F97

M1305 Insects, 2d copy

2.15

RECORDING AND CORRESPONDING SECRETARIES

- | | |
|-----------------------------|-------------------------------|
| Barber, H. G., 1902-1910 | * Leng, Charles W., 1912-1930 |
| * Dickerson, Edgar L., 1911 | |

CORRESPONDING SECRETARIES

- | | |
|----------------------------------|------------------------------|
| * Beutenmuller, William, 1893 | * Dyar, Harrison G., 1897 |
| * Bradford, George Dexter, 1894 | * Groth, C. F., 1901 |
| * Ditmars, Raymond L., 1895-1896 | Shoemaker, Ernest, 1898-1900 |

SECRETARIES

- | | |
|-------------------------------------|-------------------------------|
| Bacon, Annette L., 1941-1944 | Pallister, John C., 1945- |
| Clausen, Lucy W., 1936-1940 | Sherman, Elizabeth, 1931-1933 |
| Engelhardt, Elizabeth S., 1934-1935 | |

ASSISTANT SECRETARY

- Sordillo, Lina, 1944-

TREASURERS

- | | |
|--------------------------------|-------------------------------|
| * Davis, William T., 1904-1929 | * Joutel, Louis H., 1898-1903 |
| * Dietz, Ottomar, 1892 | King, James C., 1946 |
| Gertsch, Willis J., 1943-1945 | Richard, Paul T., 1937-1939 |
| * Groth, C. F., 1893-1897 | Spiehl, Herman T., 1940-1942 |
| Hall, Gaylord C., 1929-1936 | |

ASSISTANT TREASURERS

- | | |
|-----------------------------|----------------------------|
| Guy, Margaret L., 1944-1945 | Sanford, Leonard J., 1946- |
|-----------------------------|----------------------------|

CURATORS

- | | |
|--------------------------------|-------------------------------|
| Gertsch, Willis J., 1941-1942 | Olsen, Chris E., 1940 |
| * Lutz, Frank E., 1909-1913 | Richards, A. Glenn, Jr., 1939 |
| Mutchler, Andrew J., 1914-1938 | |

LIBRARIANS

- | | |
|---------------------------------|---------------------------------|
| Blackwelder, Richard E., 1940 | Sanford, Leonard J., 1941-1942 |
| * Grossbeck, John A., 1912-1914 | * Schaeffer, Charles, 1902-1911 |
| Mutchler, Andrew J., 1914 | Watson, Frank E., 1915-1939 |

EDITORS

- | | |
|---|--------------------------------------|
| * Beutenmuller, William, 1893-1903 | * Schaeffer, Charles, 1916-1919 |
| * Dyar, Harrison Gray, 1904-1907 | * Wheeler, William Morton, 1908-1912 |
| Notman, Howard, 1920-1923 | Weiss, Harry B., 1924- |
| Publication Committee (Charles Schaeffer) 1913-1915 | |

* Deceased.

KEY TO VOLUMES BY YEARS

1893-Volume 1	1906-Volume 14	1919-Volume 27	1932-Volume 40
1894-Volume 2	1907-Volume 15	1920-Volume 28	1933-Volume 41
1895-Volume 3	1908-Volume 16	1921-Volume 29	1934-Volume 42
1896-Volume 4	1909-Volume 17	1922-Volume 30	1935-Volume 43
1897-Volume 5	1910-Volume 18	1923-Volume 31	1936-Volume 44
1898-Volume 6	1911-Volume 19	1924-Volume 32	1937-Volume 45
1899-Volume 7	1912-Volume 20	1925-Volume 33	1938-Volume 46
1900-Volume 8	1913-Volume 21	1926-Volume 34	1939-Volume 47
1901-Volume 9	1914-Volume 22	1927-Volume 35	1940-Volume 48
1902-Volume 10	1915-Volume 23	1928-Volume 36	1941-Volume 49
1903-Volume 11	1916-Volume 24	1929-Volume 37	1942-Volume 50
1904-Volume 12	1917-Volume 25	1930-Volume 38	
1905-Volume 13	1918-Volume 26	1931-Volume 39	

AUTHOR INDEX

- ANON. Book Notice. An outline of the Theory of Organic Evolution. By Maynard M. Metcalf. 13: 216. 1905.
- . Book Notice. American Insects. By Vernon L. Kellogg. 13: 216. 1905.
- . Book Notice. Wilhelm Junk. Entomologen-Adressbuch. W. Junk. 13: 216. 1905.
- . Book Notice. A Systematic Catalogue of the North American Rhaphidocera. By Henry Skinner. 13: 217. 1905.
- . Book Notice. The Naturalist's Universal Directory. Samuel Edson Cassino. 13: 217. 1905.
- . Book Notice. The International Code of Zoological Nomenclature as Applied to Medicine. By Ch. Wardell Stiles. 14: 52-53. 1906.
- . Book Notice. Monograph of the Bombycine Moths of North America. By Alpheus Spring Packard. 14: 53-54. 1906.
- . Book Notice. Twentieth Report of the State Entomologist . . . of the State of New York. By Ephraim Porter Felt. 14: 109-110. 1906.
- . Book Notice. Notes on Some Jamaican Culicidæ. By M. Graham. 14: 110-111. 1906.
- . Book Notice. Report and Yearbook of the Experiment Station Committee of the Hawaiian Sugar Planters' Association for . . . 1905. 14: 111-112. 1906.
- . Book Notice. Les Moustiques. By Raphaël Blanchard. 14: 167-168. 1906.
- . Book Notice. A Monograph of the Anopheles Mosquitoes of India. By S. P. James and W. Glen Liston. 14: 168. 1906.
- . Book Notice. Entomology with Special Reference to its Biological and Economic Aspects. By Justus Watson Folsom. 14: 232. 1906.
- . Book Notice. Catalogue of the Lepidoptera Phalaenæ in the British Museum. By Sir George F. Hampson. 15: 113. 1907.
- . Book Notice. A Natural History of the British Lepidoptera. By J. W. Tutt. 15: 114. 1907.
- . Book Notice. Field Tables to Lepidoptera. By William T. M. Forbes. 15: 114. 1907.
- . Book Notice. Natural History of the British Lepidoptera. Volume 5. By J. W. Tutt. 15: 172-173. 1907.
- . Willis Grant Johnson. 16: 188-189. 1908.
- . The Rev. J. L. Zabriskie. 18: 127. 1910.
- . Book Notice. Blatchley's Beetles of Indiana. 19: 126-127. 1911.

- . John Arthur Grossbeck. 22: 175. 1914.
- . Charles Palm. 25: 237-238. 1917.
- . William Dunham Kearfott. 25: 238. 1917.
- . Charles W. Leng. 49: 100. 1941.
- . The American Commission on Scientific Nomenclature in Entomology. 50: 293-294. 1942.
- ABBOTT, CYRIL E. How *Megarhyssa* deposits her eggs. 42: 127-133. 1934.
- . The ovipositing mechanism of *Tremex columba*. 43: 337-340. 1935.
- . The development and general biology of *Creophilus villosus* Grav. 46: 49-53. 1938.
- . Concerning the musculature of the male genitalia in *Panorpa nuptialis* Gerst. 49: 43-46. 1941.
- . The sensory basis of courtship. 49: 217-223. 1941.
- ACKERMAN, ARTHUR J. The carpenter-bees of the United States of the genus *Xylocopa*. 24: 196-232. 1916.
- ADAMS, C. F. Notes on North American species of *Crassiseta* V. Ros. 16: 151-152. 1908.
- ADAMS, J. A. Biological notes upon the firebrat, *Thermobia domestica* Packard. 41: 557-562. 1933.
- ALDRICH, J. M. Additions to my catalogue of North American Diptera. 15: 2-9. 1907.
- . Larvæ of a saturnid moth used as food by California Indians. 20: 28-31. 1912.
- . The biology of some western species of the dipterous genus *Ephydra*. 20: 77-99. 1912.
- . Two western species of *Ephydra*. 20: 99-102. 1912.
- . The North American species of *Lispa* (Diptera: Anthomyiidae). 21: 126-146. 1913.
- . The deer bot-flies (Genus *Cephenomyia* Latr.). 23: 145-150. 1915.
- ALEXANDER, C. P., AND M. D. LEONARD. Venational variation in *Cladysira* (Tipulidæ, Diptera). 20: 36-40. 1912.
- . A revision of the genus *Brachypremna* Osten Sacken (Tipulidæ, Diptera). 20: 225-236. 1912.
- . Report on a collection of crane-flies (Tipulidæ, Diptera) from the Colombian Andes, taken by Mr. John Thomas Lloyd. 21: 193-212. 1913.
- . The crane-flies collected in Costa Rica by Dr. P. P. Calvert. (Tipulidæ, Diptera). 22: 116-124. 1914.
- . A revision of the American species of *Tanyipremna* Osten Sacken and *Megistocera* Wiedemann (Tipulidæ, Diptera). 22: 205-218. 1914.
- . New Limmophiline crane-flies from the United States and Canada (Tipulidæ, Diptera). 24: 118-125. 1916.
- . New species of Tipuline crane-flies from eastern Asia (Tipulidæ, Diptera). 26: 66-75. 1918.

- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera). I. 27: 132-154. 1919.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera). II. 28: 1-13. 1920.
- . Undescribed species of crane-flies from Cuba and Jamaica (Tipulidæ, Diptera). 34: 223-230. 1926.
- . Records and descriptions of crane-flies from the eastern United States (Tipulidæ, Diptera). 35: 55-63. 1927.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), III. 35: 265-278. 1927.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera). 36: 47-59. 1928.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), V. 36: 355-367. 1928.
- . Undescribed species of Eriopterine crane-flies from the United States and Canada (Tipulidæ, Diptera), Part I. 37: 49-58. 1929.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), VI. 37: 89-99. 1929.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), VII. 37: 395-407. 1929.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), VIII. 38: 109-120. 1930.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), IX. 39: 109-122. 1931.
- . Undescribed species of Eriopterine crane-flies from the United States and Canada (Tipulidæ, Diptera). Part II. 41: 91-100. 1933.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), X. 46: 327-337. 1938.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), XI. 48: 105-116. 1940.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), XII. 49: 139-148. 1941.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), XIII. 49: 345-356. 1941.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), XIV. 50: 135-146. 1942.
- . Records and descriptions of neotropical crane-flies (Tipulidæ, Diptera), XV. 50: 251-262. 1942.
- ALLARD, H. A. Notes on some cicadas in Virginia and West Virginia. 46: 449-452. 1938.
- ANDERSON, THOMAS F. See RICHARDS, A. GLENN, JR. 50: 147-167. 1942.
- . See RICHARDS, A. GLENN, JR. 50: 245-247. 1942.
- ANGELL, G. W. J. Notes on *Macrops* and *Anthonomus*. 1: 12-15. 1893.
- . Notes on *Oniticellus* Serv. 1: 15-16. 1893.
- . *Carabus caseyi* Angell. 22: 75. 1914.
- ANGELL, JOHN W. *Necrophorus guttula* Motsch., and its color varieties. 28: 89-90. 1920.

- . See HATCH, MELVILLE H. 33: 216. 1925.
- ANTHONY, MAUDE H. See NEEDHAM, JAMES G. 11: 117-125. 1903.
- ARGO, VIRGIL N. The North American species of the genus *Potamanthus*, with a description of a new species. 35: 319-329. 1927.
- ASHMEAD, WILLIAM H. Super-families in the Hymenoptera and generic synopses of the families Thynnidae, Myrmosidae and Mutillidae. 7: 45-60. 1899.
- . Classification of the pointed-tailed wasps, or the superfamily Proctotrypoidea. I. 10: 240-247. 1902.
- . Classification of the pointed-tailed wasps, or the superfamily Proctotrypoidea. II. 11: 28-35. 1903.
- . Classification of the pointed-tailed wasps, or the superfamily Proctotrypoidea. III. 11: 86-99. 1903.
- . Two new hymenopterous parasites. 11: 144. 1903.
- . A list of the Hymenoptera of the Philippine Islands, with descriptions of new species. 12: 1-22. 1904.
- . Descriptions of new Hymenoptera from Japan. I. 12: 65-84. 1904.
- . Descriptions of new Hymenoptera from Japan. II. 12: 146-165. 1904.
- AUSTIN, JEAN AND C. H. RICHARDSON. Ability of the firebrat to damage fabrics and paper. 49: 357-365. 1941.
- BACON, ANNETTE L. Proceedings of the New York Entomological Society. 50: 211-213. 1942.
- . Proceedings of the New York Entomological Society. 50: 289-292. 1942.
- BAERG, J. W. Tarantula studies. 46: 31-43. 1938.
- BAKER, C. F. Notes on Siphonaptera, with descriptions of four new species. 6: 53-56. 1898.
- BALDUF, W. V. Bionomic notes on *Exartema ferriferanum* Walk. (Lepidoptera, Olethreutidae) and its parasites (Hym: Brac., Chalc.). 46: 23-26. 1938.
- BALL, E. D., AND D. M. DELONG. Three new species of *Deltocephalus*. 34: 241-242. 1926.
- BANKS, NATHAN. Notes on spiders. 1: 123-134. 1893.
- . The Phalangida of New York. 2: 40-41. 1894.
- . On the Lycosidae of Colorado. 2: 49-52. 1894.
- . Notes on Phalangidae. 2: 145-146. 1894.
- . Notes on the Pseudoscorpionida. 3: 1-13. 1895.
- . Two California phalangids. 3: 66. 1895.
- . A list of the spiders of Long Island, N. Y., with descriptions of new species. 3: 76-93. 1895.
- . Some Acarians from a sphagnum swamp. 3: 128-130. 1895.
- . New California spiders. 4: 88-91. 1896.
- . Additions to the list of Long Island spiders. 4: 190-193. 1896.
- . A new species of Gomphus. 4: 193-195. 1896.

- . Descriptions of two new Smynthurids. 5: 33-34. 1897.
- . Some Syrphidæ from Long Island. 5: 40-41. 1897.
- . Some Mexican Phalangida. 6: 181-182. 1898.
- . The Smynthuridæ of Long Island, New York. 7: 193-197. 1899.
- . New genera and species of American Phalangida. 8: 199-201. 1900.
- . Notes on some spiders of Walckenaer, Koch, and others. 9: 182-189. 1901.
- . A new phalangid from the Black Mountains, N. C. 10: 142. 1902.
- . Sleeping habits of certain Hymenoptera. 10: 209-214. 1902.
- . Additions to the list of New York Pentatomidæ. 11: 227. 1903.
- . Some new Neuropteroid insects. 11: 236-243. 1903.
- . Four new species of injurious mites (Acarina). 12: 53-56. 1904.
- . New genera and species of nearctic spiders (Araneida). 12: 109-119. 1904.
- . Phalangids in the District of Columbia. 12: 256. 1904.
- . Trichoptera and Psocidæ. 15: 162-166. 1907.
- . New genera and species of tropical Myrmeleonidæ. 17: 1-4. 1909.
- . New tropical pseudoscorpions. 17: 145-148. 1909.
- . New species of Psammocharidæ. 18: 114-126. 1910.
- . Psammocharidæ: classification and descriptions. 19: 219-237. 1911.
- . Notes on African Myrmeleonidæ. 21: 149-157. 1913.
- . New species of Psammocharidæ. 22: 300-306. 1914.
- . Notes on some Virginian species of *Platypeza* (Platypezidæ, Diptera). 23: 213-216. 1915.
- BARBER, GEORGE W. A study of the elliptical goldenrod gall caused by *Gnorimoschema gallaesolidaginis* Riley. 46: 155-178. 1938.
- . See Leonard, M. D. 31: 81-184. 1923.
- BARBER, G. W., AND J. S. WADE. Note on a collection of old entomological paintings. 41: 101-103. 1933.
- BARBER, G. W., AND WM. O. ELLIS. The beetles of the family Cupedidæ of America, north of Mexico. 28: 197-208. 1920.
- BARBER, H. G. Proceedings of the New York Entomological Society. 10: 170-176. 1902.
- . Proceedings of the New York Entomological Society, 10: 248-254. 1902.
- . Proceedings of the New York Entomological Society. 11: 111-116. 1903.
- . Proceedings of the New York Entomological Society. 11: 173-176. 1903.
- . Proceedings of the New York Entomological Society. 11: 249-250. 1903.

- . Proceedings of the New York Entomological Society. 12: 59-64. 1904.
- . Proceedings of the New York Entomological Society. 12: 124-128. 1904.
- . Proceedings of the New York Entomological Society. 12: 192. 1904.
- . Proceedings of the New York Entomological Society. 12: 257-260. 1904.
- . Proceedings of the New York Entomological Society. 13: 99-102. 1905.
- . Proceedings of the New York Entomological Society. 13: 167-168. 1905.
- . Proceedings of the New York Entomological Society. 13: 217-220. 1905.
- . Proceedings of the New York Entomological Society. 14: 54-56. 1906.
- . Proceedings of the New York Entomological Society. 14: 112. 1906.
- . Proceedings of the New York Entomological Society. 14: 233-241. 1906.
- . Proceedings of the New York Entomological Society. 15: 115-116. 1907.
- . Proceedings of the New York Entomological Society. 15: 173-176. 1907.
- . Proceedings of the New York Entomological Society. 15: 249-252. 1907.
- . Proceedings of the New York Entomological Society. 16: 53-60. 1908.
- . Proceedings of the New York Entomological Society. 16: 115-124. 1908.
- . Proceedings of the New York Entomological Society. 16: 190-196. 1908.
- . Proceedings of the New York Entomological Society. 16: 239-248. 1908.
- . Proceedings of the New York Entomological Society. 17: 41-48. 1909.
- . Proceedings of the New York Entomological Society. 17: 90-94. 1909.
- . Proceedings of the New York Entomological Society. 17: 137-143. 1909.
- . Proceedings of the New York Entomological Society. 17: 189-193. 1909.
- . Some Mexican Hemiptera-Heteroptera new to the fauna of the United States. 18: 34-49. 1910.
- . Proceedings of the New York Entomological Society. 18: 66-70. 1910.

- . Proceedings of the New York Entomological Society. 18: 128–135. 1910.
- . Proceedings of the New York Entomological Society. 18: 268–273. 1910.
- . Descriptions of some new Hemiptera-Heteroptera. 19: 23–31. 1911.
- . The resurrection of *Thyanta calceata* Say from synonymy. 19: 108–111. 1911.
- . *Pyrrhocoris apterus* Linn., in the United States. 19: 111–112. 1911.
- . Proceedings of the New York Entomological Society. 19: 127–131. 1911.
- . Two Hemiptera new to New Jersey. 19: 198. 1911.
- . Proceedings of the New York Entomological Society. 19: 201–207. 1911.
- . Proceedings of the New York Entomological Society. 19: 263–270. 1911.
- . Distribution of Hemiptera. 20: 134–135. 1912.
- . Aquatic Hemiptera. 21: 29–32. 1913.
- . Another queen of the “white ant” found. 22: 73. 1914.
- . New Hemiptera-Heteroptera, with comments upon the distribution of certain known species. 22: 164–171. 1914.
- . Concerning Lygæidæ, No. 1. 26: 44–46. 1918.
- . Concerning Lygæidæ, No. 2. 26: 49–66. 1918.
- . Revision of the genus *Ligyrocoris* Stål. (Hemiptera, Lygæidæ). 29: 100–114. 1921.
- . Note on *Luteva carolina* H. S. (Hemiptera-Heteroptera. Fam. Reduviidæ). 30: 130. 1922.
- . Corrections and comments (Hemiptera-Heteroptera). 32: 133–137. 1924.
- . Notes on Coreidæ in the collection of the United States National Museum with description of a new *Catorhintha* (Hemiptera-Heteroptera). 34: 209–216. 1926.
- . A new genus and species of Coreidæ from the western states. (Hemiptera-Heteroptera). 36: 25–28. 1928.
- . Revision of the genus *Ptochiomera* Say (Hemiptera, Lygæidæ). 36: 175–177. 1928.
- . Three new species of *Exptochiomera* from the United States (Hemiptera-Lygæidæ). 40: 357–363. 1932.
- AND S. C. BRUNNER. A new subfamily of Lygæidæ, including a new genus and two new species of *Pamphantus* Stål. (Hemiptera-Heteroptera: Lygæidæ). 41: 531–543. 1933.
- . New *Geocoris* from the United States with key to species (Lygæidæ Geocorinæ). 43: 131–137. 1935.
- . A review of the genus *Crophius* Stål, with description of three new species, (Hemiptera-Heteroptera: Lygæidæ). 46: 313–319. 1938.

- BARNES, WILLIAM, AND J. McDUNNOUGH. New species and varieties of North American Lepidoptera. 18: 149-162. 1910.
- AND ———. Additional new species of North American Lepidoptera. 19: 81-85. 1911.
- AND ———. New species and genera of North American Lepidoptera. 19: 151-162. 1911.
- BARNHART, JOHN HENDLEY. Plants as insect traps. 44: 257. 1936.
- BEAMER, L. D., AND R. H. BEAMER. Biological notes on some western cicadas. 38: 291-305. 1930.
- BEAMER, R. H. See BEAMER, L. D. 38: 291-305. 1930.
- . Notes on some western Erythroneura with description of three new species (Homoptera: Cicadellidæ). 42: 285-288. 1934.
- BECK, D. ELDON. Life history notes and a study of the effects of humidity on adult emergence of *Rhagoletis suavis* Cress., from pupæ at a constant temperature (Diptera, Trypetidæ). 40: 497-501. 1932.
- BECKER, GEORGE G. Some phases of port inspection problems. 50: 290-291. 1942.
- BECKWITH, CHARLES S. The blossom worm, a cranberry pest. 37: 409-416. 1929.
- , AND SIDNEY B. HUTTON. Life history notes on some leafhoppers that occur on New Jersey cranberry bogs. 37: 425-427. 1929.
- BELL, E. L. Winter collecting notes on Florida Rhopalocera. 28: 235-237. 1920.
- . Notes on *Asilus sericeus* Say (Diptera, Asilidæ). 32: 219. 1924.
- . Remarks on *Myseelus epigona* Herrich-Schaffer. (Lepidoptera-Rhopalocera, Hesperiidæ). 33: 227-232. 1925.
- . Notes on some Hesperiidæ from Alabama (Lepidoptera, Rhopalocera). 34: 269-271. 1926.
- . *Atrytonopsis vierecki* Skinner from Texas. 34: 317. 1926.
- . Collecting at Wilmington, North Carolina, and Suffolk, Virginia. 34: 351-354. 1926.
- . Description of a new race of *Pamphila juba* Seudder (Lepidoptera, Rhopalocera-Hesperiidæ). 35: 175-176. 1927.
- . Description of a new species of *Erynnis* (*Thanaos* auct.) (Lepidoptera, Rhopalocera, Hesperiidæ). 35: 261-263. 1927.
- . Description of new South American Hesperiidæ (Lepidoptera, Rhopalocera). 38: 149-158. 1930.
- . Descriptions of new South American Hesperiidæ (Lepidoptera, Rhopalocera). 38: 455-461. 1930.
- . A list of Hesperiidæ from Barro Colorado Island, Canal Zone, and adjacent Panama, with a description of a new species. 39: 81-108. 1931.
- . Studies in the Pyrrhopyginæ, with descriptions of several new species (Lepidoptera, Rhopalocera, Hesperiidæ). 39: 417-491. 1931.
- . Descriptions of new Hesperiidæ from Trinidad, B. W. I., and South America (Lepidoptera, Rhopalocera). 39: 523-531. 1931.

- . Studies in the Pyrrhopyginae, with descriptions of new species (Lepidoptera, Rhopalocera, Hesperidiæ). 41: 265-195; 481-529. 1933.
- . Studies in the Pyrrhopyginae (Lepidoptera, Rhopalocera). 42: 393-441. 1934.
- . Some synonymy in neotropical Hesperidiæ (Lepidoptera). 48: 116. 1940.
- . Two new subspecies of *Phlebodes tiberius* Moeschler. 49: 193-197. 1941.
- , AND WILLIAM PHILLIPS COMSTOCK. The synonymy of *Papilio coridon* Poda, *Papilio phocion* Fabricius and others. 49: 371-374. 1941.
- BEQUAERT, JOSEPH C. A new nemestrinid fly from Central Texas. 27: 301-307. 1919.
- . Book notice. Les Insects. Anatomie et Physiologie Générales. By C. Houlbert. 29: 179-180. 1921.
- . Moroccan folded-winged wasps, mainly collected by Professor Theodore D. A. Cockerell and Party. 39: 131-137. 1931.
- . Tabanidæ of the Peninsula of Yucatan, Mexico, with descriptions of new species. 39: 533-553. 1931.
- . Notes on American Nemestrinidæ, second paper. 42: 163-184. 1934.
- . An introductory study of Polistes in the United States and Canada with descriptions of some new North and South American forms (Hymenoptera; Vespidae). 48: 1-31. 1940.
- . New and imperfectly known neotropical Polybiinæ (Hymenoptera, Vespidae). 50: 295-308. 1942.
- BETTEN, C. The larva of the caddis fly, *Molanna cinerea* Hagen. 10: 147-154. 1902.
- BEUTENMULLER, WILLIAM. On the food-habits of North American Rhynchophora. 1: 36-43; 80-88. 1893.
- . See LENG, CHARLES W. 1: 91-96; 134-146; 185-194. 1893.
- . See LENG, CHARLES W. 2: 42-48. 1894.
- . Description of a new tree-cricket. 2: 56. 1894.
- . See LENG, CHARLES W. 2: 87-96; 133-141; 175-190. 1894.
- . Note on *Spharagemon saxatile* Morse. 2: 144. 1894.
- . Note on *Xiphidium nemorale* Scudder. 2: 192. 1894.
- . Obituary, George Dexter Bradford. 2: 192. 1894.
- . Variety of the larva of *Sphinx plebeius*. 3: 58. 1895.
- . Descriptions of the preparatory stages of *Ennomos alniaria* (Linn.). 3: 137-138. 1895.
- . Note on *Hyperchiria io* var. *lilith*. 3: 138-139. 1895.
- . Food-habits of North American Cerambycidæ. 4: 73-81. 1896.
- . Description of a new moth. 4: 146. 1896.
- . Note on *Catocala elda* Behr. 5: 17. 1897.
- . Note on *Melittia satyriniformis* Hübner. 5: 34-35. 1897.
- . Preliminary handbook of the Coleoptera of Northeastern America. 5: 36-40. 1897.

- . On the two species of *Eudæmonia*. 5: 166. 1897.
- . Note on the nest of *Vespa crabro*. 6: 199. 1898.
- . Three new species of Sesiidæ. 6: 240-241. 1898.
- . New African Sesiidæ. 7: 170-172. 1899.
- . Descriptions of and notes on some North American Lepidoptera. 7: 254-256. 1899.
- . Entomological writings of the late Rev. George D. Hulst. 8: 251-254. 1900.
- . Two new Sesiidæ. 8: 254. 1900.
- . The earlier stages of *Sphinx gordius*. 9: 87. 1901.
- . The earlier stages of *Ceratonia amyntor*. 9: 88-89. 1901.
- . The earlier stages of *Smerinthus geminatus*. 9: 89-90. 1901.
- . Descriptions of three lepidopterus larvæ. 9: 90. 1901.
- . Catalogue of the described transformations of Australian Lepidoptera. 9: 147-177. 1901.
- . The larva of *Catocala illecta*. 9: 189. 1901.
- . The larva of *Homoptera edusa*. 9: 192. 1901.
- . Notes on the earlier stages of *Lobobunæa phædusa*. 9: 193-194. 1901.
- . Habits of *Eudæmonia brachyura*. 9: 194-195. 1901.
- . Herman Strecker, Ph.D. 9: 200. 1901.
- . Description of a new *Sesia*. 10: 126. 1902.
- . Book Notice. A Popular Guide to a Knowledge of the Moths of North America. By W. J. Holland. 11: 250. 1903.
- . A new cynipid from Arizona. 16: 45. 1908.
- BEYER, GUSTAV. Insects breeding in adobe walls. 12: 30-31. 1904.
- . A few notes on Brenthidæ. 12: 168-169. 1904.
- . Notes on *Oncideres quercus* Skinner. 16: 32. 1908.
- BEZZI, M. On the genus *Rhodesiella* C. F. Adams (Diptera). 27: 174-179. 1919.
- BIBBY, F. F. Coccoids collected on wild plants in semi-arid regions of Texas and Mexico (Homoptera). 39: 587-591. 1931.
- BIRD, HENRY. Boring noctuid larvæ. 10: 214-216. 1902.
- . On *Xanthæcia buffalænsis* Grt., and *Papaipema latia* Strk. 19: 88-90. 1911.
- . The passing of the hickory nut. 21: 123-126. 1913.
- . *Xanthæcia buffalænsis* Grt., its larval habit and occurrence within our fifty-mile faunal zone. 24: 86-90. 1916.
- . Some little known noctuid larvæ of the genera *Chabuata*, *Gortyna* and *Archanara* (Lepidoptera). 33: 182-187. 1925.
- . A new arrangement and a new generic name in the gortynid series of the Acronyctinæ (Lepidoptera). 35: 179-182. 1927.
- BISHOFF, E. A. Field notes on Coleoptera. 21: 159-160. 1913.
- BISHOP, SHERMAN C. See CROSBY, C. R. 35: 147-157. 1927.
- , AND C. R. CROSBY. Studies in American spiders: genera Cera-
tinopsis, Ceratinopsidis and Tutaiba. 38: 15-33. 1930.

- , AND RICHARD C. HART. Notes on some natural enemies of the mosquito in Colorado. 39: 151-157. 1931.
- . See CROSBY, C. R. 39: 359-403. 1931.
- , AND C. R. CROSBY. Studies in American spiders: the genus *Grammonota*. 40: 393-421. 1932.
- AND ———. Studies in American spiders. 42: 215-219. 1934.
- AND ———. American *Erigoneæ*: the spider genera *Pelecopsidis* and *Floricomus*. 43: 31-45. 1935.
- AND ———. Studies in American spiders: miscellaneous genera of *Erigoneæ*. 43: 217-241. 1935.
- AND ———. Studies in American spiders: miscellaneous genera of *Erigoneæ*. 43: 255-281. 1935.
- . See CROSBY, C. R. 44: 43-49. 1936.
- , AND C. R. CROSBY. Studies in American spiders: miscellaneous genera of *Erigoneæ*, Part II. 46: 55-107. 1938.
- BLACKWELDER, RICHARD E. Some aspects of modern taxonomy. 48: 245-257. 1940.
- BLAIR, BEULAH HIX. The bees of the group *Dieunomia*. 43: 201-215. 1935.
- BLANTON, F. S. Notes on some thrips collected in the vicinity of Babylon, Long Island, N. Y. 47: 83-94. 1939.
- . The abundance of *Tabanidæ* as revealed by one season's survey at Babylon, N. Y. 47: 311-313. 1939.
- BLATCHLEY, W. S. The home of *Hormops* and its proper position among other *Rhynchophora*. 26: 155-161. 1918.
- . Some new *Rhynchophora* from eastern North America with additions to and corrections of the "Rhynchophora of Northeastern America." 28: 161-178. 1920.
- . Notes on Indiana *Halticini* with characterization of a new genus and descriptions of new species. 29: 16-27. 1921.
- . Notes on the *Rhynchophora* of eastern North America, with characterizations of new genera and descriptions of new species. 30: 95-105; 113-127. 1922.
- . Notes on the *Orthoptera* of the eastern United States. 32: 127-132. 1924.
- . Notes on the *Rhynchophora* of eastern North America with descriptions of new species, III. 33: 87-113. 1925.
- . Notes on the *Heteroptera* of eastern North America with descriptions of new species, I. 36: 1-23. 1928.
- . Notes on the *Rhynchophora* of eastern North America with descriptions of new species, IV. 36: 235-262. 1928.
- BLOOD, ROZELLA. The anatomy of *Pyrota mylabrina* (Chev.). 43: 1-17. 1935.
- BOVING, ADAM G. The larva of the weevil *Limnobaris rectirostris* Leconte. 32: 198-205. 1924.
- BRADLEY, J. CHESTER. *Henicocephalus culicis* Uhler. 20: 69-70. 1912.

- . *Physocnenum andreae* Hald., in the Okefinokee Swamp in Georgia. 21: 159. 1913.
- . Book Notice. Rhynchophora or weevils of North Eastern America. By W. S. Blatchley and C. W. Leng. 25: 81-84. 1917.
- . Book review. A Revision of the Vespidae of the Belgian Congo. . . . By J. Bequaert. 27: 102-108. 1919.
- BRANCH, HAZEL ELIZABETH. The life history of *Chironomus cristatus* Fabr., with descriptions of the species. 31: 15-30. 1923.
- BRELAND, OSMOND P. Phylogeny of some callimomid genera (Parasitic Hymenoptera). 46: 355-399. 1938.
- . Some parasites and hyperparasites of the cecropia moth. 48: 259-264. 1940.
- . For more clarity in entomological writing. 50: 199-201. 1942.
- BROMLEY, STANLEY W. Beekilling robber flies. 38: 159-176. 1930.
- . Hornet habits. 39: 123-129. 1931.
- . Two new Dasypogonine robber flies from the southeast (Asilidae: Diptera). 42: 225-226. 1934.
- . The genus *Diogmites* in the United States of America with descriptions of new species (Diptera: Asilidae). 44: 225-237. 1936.
- . The genus *Stenopogon* Loew in the United States of America (Asilidae: Diptera). 45: 291-309. 1937.
- . The shade tree insects of 1941. 50: 212. 1942.
- BROUGHTON, ELSIE. See NEEDHAM, JAMES G. 35: 109-121. 1927.
- BROWER, AUBURN E. *Eurymus eurytheme* Bdv. (Lepid.) at Ithaca, N. Y., in 1929. 37: 437. 1929.
- . *Eurymus eurytheme* in Maine. 40: 510. 1932.
- BROWN, F. MARTIN, AND HAZEL M. HEFFRON. Serum diagnosis and Rhopalocera. 36: 165-168. 1928.
- BROWN, F. MARTIN. The localities of T. L. Mead's collection of butterflies from Colorado in 1871. 42: 155-162. 1934.
- . Notes on Ecuadorian butterflies. II. Papilio. 50: 123-134. 1942.
- . Notes on Ecuadorian butterflies. V. 50: 309-333. 1942.
- BROWN, ROBERT E. Strychnine as food of *Araecerus fascicularis* DeGeer. 14: 116. 1906.
- BRUES, CHARLES T. On the sleeping habits of some aculeate Hymenoptera. 11: 228-230. 1903.
- . Is mutation a factor in the production of vestigial wings among insects? 16: 45-52. 1908.
- . Some new North American Phoridae. 16: 199-201. 1908.
- . Some new Phoridae from the Philippines. 17: 5-6. 1909.
- . Some notes on the geological history of the parasitic Hymenoptera. 18: 1-22. 1910.
- . Some new Phoridae from Java. 23: 184-192. 1915.
- . Notes and descriptions of North American Serphidae (Hymenoptera). 27: 1-19. 1919.

- . Some adaptive responses of taxonomy to a changing environment. 47: 145-154. 1939.
- BRUNER, LAWRENCE. Report on the Orthoptera of Trinidad. West Indies. 14: 135-165. 1906.
- BRUNER, S. C. See BARBER, H. G. 41: 531-543. 1933.
- BUCHHOLZ, OTTO. George J. Keller. 34: 293. 1926.
- BURDETTE, ROBERT C. See HEADLEE, THOMAS J. 37: 59-64. 1929.
- BURDETTE, WALTER. See MICKEY, GEORGE H. 49: 77-84. 1941.
- BURNS, EDWARD J. Records of butterflies from Ft. Wadsworth, Staten Island, N. Y. 26: 48. 1918.
- BURRELL, R. W. Notes on the habits of certain Australian Thynnidae. 43: 19-29. 1935.
- BURRILL, A. C. A slave-making foray of the shining Amazon (*Polyergus lucidus* Mayr). 16: 144-151. 1908.
- BUSCK, AUGUST. New American Tineina. 8: 234-248. 1900.
- . Notes on North American Tineina. 10: 89-100. 1902.
- . Notes on the Cerostoma group of Yponomeutidae, with descriptions of new North American species. 11: 45-59. 1903.
- . On the generic name of the codling moth. 11: 106-111. 1903.
- . A new species of *Ethmia* from the boreal region of Colorado. 12: 44. 1904.
- . A case-bearer injurious to apple and plum in China (*Coleophora neviusiella*, new species). 12: 45-46. 1904.
- . A new name for a Tineid genus (Lepidoptera). 12: 177. 1904.
- . A review of the tortricid subfamily Phaloniiæ with descriptions of new American species. 15: 19-36. 1907.
- . New genera and species of American Microlepidoptera. 15: 134-140. 1907.
- . Descriptions of three new Tortricidae from Mexico. 15: 235-236. 1907.
- BUYS, JOHN L. Leafhoppers of Mt. Marey and Mt. MacIntyre, Essex Co., New York (Homoptera, Cicadellidae). 39: 139-143. 1931.
- BYERS, C. FRANCIS. Notes on some American dragonfly nymphs (Odonata, Anisoptera). 35: 65-75. 1927.
- CALDER, EDWIN E. *Cicindela hirticollis* var. *rhodensis* nov. var. 24: 93-94. 1916.
- CALVERT, PHILIP P. The Odonata of New York State. 3: 39-48. 1895.
- . Additions to the Odonata of New York State. 5: 91-95. 1897.
- CARPENTER, F. M. The affinities of *Holcorpa maculosa* Scudder and other tertiary Mecoptera with descriptions of new genera. 39: 405-415. 1931.
- CARPENTER, JOHN. See MICKEY, GEORGE H. 1941.
- CARRIKER, M. A. Descriptions of new Mallophaga from Nebraska. 10: 216-229. 1902.
- CASEY, THOMAS L. Studies in the Ptinidae, Cioidae and Sphindidae of America. 6: 61-93. 1898.

- . A revision of the American Coccinellidæ. 7: 71-169. 1899.
- . Review of the American Corylophidæ, Cryptophagidæ, Tritomidæ, and Dermestidæ, with other studies. 8: 51-172. 1900.
- CASTLE, D. M. Florida beetles. 24: 92. 1916.
- CAUDELL, A. N. The genus *Sinea* of Amyot and Serville. 9: 1-11. 1901.
- . The genus *Cyphoderris* (Orthoptera). 12: 47-53. 1904.
- . A new forficulid from the Philippines (Orthoptera). 12: 108-109. 1904.
- . See DYAR, HARRISON G. 12: 120-122. 1904.
- . On a collection of non-saltatorial Orthoptera from Paraguay. 12: 179-188. 1904.
- . A new species of the locustid genus *Amblycorypha* from Kansas. 13: 50. 1905.
- . Two interesting mantids from the United States. 13: 82-83. 1905.
- . *Aplopus mayeri*, new species. 13: 83-85. 1905.
- . A new *Bacunculus* from Indiana (Orthoptera). 13: 212. 1905.
- . The Cyrtophylli of the United States (Orthoptera). 14: 32-45. 1906.
- . On some Forficulidæ of the United States and West Indies. 15: 166-170. 1907.
- . A new Cyrtoxipha from the United States (Orthoptera). 15: 237-238. 1907.
- . The specialist. 15: 238. 1907.
- CHAMBERLIN, RALPH V. Linyphiidæ of St. Paul Island, Alaska. 29: 35-43. 1921.
- , AND STANLEY MULAİK. On a collection of millipeds from Texas and New Mexico. 49: 57-64. 1941.
- CHAMBERLIN, W. J. Notes on two little-known wood-boring beetles *Chrysobothris sylvania* Fall and *Melasis rufipennis* Horn. (Buprestidæ, Elateridæ). 28: 151-157. 1920.
- . A review of the genus *Pæcilonota* as found in America north of Mexico (Coleoptera, family Buprestidæ) with descriptions of new species. 30: 52-66. 1922.
- . A new lepidopterus enemy of yellow pine in Oregon. 30: 69-71. 1922.
- . Notes on the Buprestidæ of Oregon with descriptions of new species. 32: 186-195. 1924.
- . A synopsis of the genus *Polycesta* Soliar with the description of one new species (Coleoptera; Buprestidæ). 41: 37-47. 1933.
- . New Buprestidæ from California. 46: 445-447. 1938.
- CHAPMAN, B. L. See KELLOGG, V. L. 10: 20-28. 1902.
- . See KELLOGG, V. L. 10: 155-169. 1902.
- CHAPMAN, PAUL J. Corrodentia of the United States of America: I. Sub-order Isotecnomera. 38: 219-290; 319-403. 1930.
- CHAPMAN, T. A. Notes on the pupa of *Oeta floridana*. 5: 127-129. 1897.

- CHITTENDEN, F. H. Biologic notes on species of *Languria* (Coleoptera). 12: 27-30. 1904.
- . A species of the tenebrionid genus *Latheticus* in the United States (Coleoptera). 12: 166-167. 1904.
- . The North American species of the genus *Notaris* Germ. 14: 113-115. 1906.
- . The amaranth curculio, *Conotrachelus seniculus* Lec. 32: 119-121. 1924.
- . *Chalcoides fulvicornis* Fab. 33: 120. 1925.
- . A new species of *Listronotus* from north of Mexico. 34: 341-342. 1926.
- CLARK, CHARLES UPSON. On the food habits of certain dung and carion beetles. 3: 61. 1895.
- CLAUSEN, C. P. The effect of host size upon the sex ratio of Hymenopterous parasites and its relation to methods of rearing and colonization. 47: 1-9. 1939.
- CLAUSEN, LUCY W. Proceedings of the New York Entomological Society. 44: 349-356. 1936.
- . Proceedings of the New York Entomological Society. 45: 259-267. 1937.
- . Proceedings of the New York Entomological Society. 45: 409-413. 1937.
- . Proceedings of the New York Entomological Society. 46: 229-234. 1938.
- . Proceedings of the New York Entomological Society. 47: 95-100. 1939.
- . Proceedings of the New York Entomological Society. 48: 295-301. 1940.
- . Proceedings of the New York Entomological Society. 49: 111-117. 1941.
- CLENCH, HARRY K. The identity of the Florida race of *Leptotes* (Lepidoptera, Lycænidae). 50: 243-244. 1942.
- COCKERELL, THEODORE D. A. Notes on a few bombycoid moths from Grant County, New Mexico. 2: 105-106. 1894.
- . *Diabrotica* in New Mexico. 4: 201. 1896.
- . New species of insects taken on a trip from the Mesilla Valley to the Sacramento Mts., in New Mexico. 4: 201-207. 1896.
- . A new *Aleurodes* found on *Aquilegia*. 5: 42. 1897.
- . A new *Aleurodes* on *Rubus* from Florida. 5: 96-97. 1897.
- . Biological notes on some Coleoptera from New Mexico. 5: 149-150. 1897.
- . New records of Coccidæ. 7: 257-259. 1899.
- . On some bees of the genus *Andrena* from New Jersey. 9: 132-133. 1901.
- . See VIERECK, H. L. 12: 84-88. 1904.
- . See VIERECK, H. L. 12: 129-146. 1904.

- , AND W. W. ROBBINS. Some new and little-known Coccidæ. 17: 104-107. 1909.
- . Some Australian bees in the Berlin Museum. 18: 98-114. 1910.
- . Bees from Ecuador and Peru. 22: 306-328. 1914.
- . Some records of bees. 25: 135. 1917.
- . The bees of Peaceful Valley, Colorado. 27: 298-300. 1919.
- . New bees from the Mesa Verde National Park, Colorado. 37: 441-448. 1929.
- . Bees collected by Charles Darwin on the voyage of the "Beagle." 40: 519-522. 1932.
- . Bees from British Guiana. 44: 249-252. 1936.
- COCKERELL, WILMATTE P. Collecting bees in southern Texas. 25: 187-193. 1917.
- COLE, FRANK R. Notes on Osten Sacken's group "*Pæcilianthraz*" with descriptions of new species. 25: 67-80. 1917.
- COLEMAN, GEORGE A. Coccidæ of the Coniferæ, with the descriptions of ten new species from California. 11: 61-85. 1903.
- . Coccidæ of the Coniferæ. Supplement No. 1. Description of two new species. 16: 197-198. 1908.
- COMSTOCK, WILLIAM PHILLIPS. On the use of coal tar creosote as a preventive of cabinet pests. 17: 73-74. 1909.
- . On the identity of *Thecla muiri* Henry Edwards. 19: 86-87. 1911.
- . *Erebus odora*. 20: 68. 1912.
- . Lycænidæ of California described by Boisduval. 22: 33-37. 1914.
- . Erycinidæ and Lycænidæ from the island of Trinidad. 22: 152-154. 1914.
- . Butterflies of New Jersey. 48: 47-84. 1940.
- . See BELL, E. L., 1941.
- . See JOHNSON, FRANK. 1941.
- . Book Notice. Butterflies. A handbook of the butterflies of the United States. By Ralph W. Macey and Harold H. Shepard. 50: 36. 1942.
- . Dating the Systema Entomologiæ, by Fabricius and Papillons Exotiques, Volume I, by Cramer. 50: 189-190. 1942.
- . *Papilio lavina* Fabricius and Cramer. 50: 190-191. 1942.
- . The monarch butterfly. 50: 213. 1942.
- . Nymphalidæ of the Antilles (Lepidoptera, Rhopalocera). 50: 283-288. 1942.
- COOK, HARRY. A correction of some recent synonymy in the genus *Thecla*. 15: 130-131. 1907.
- COOK, JOHN H. On the specific validity of *Thanaos ausonius* Lintner. 14: 125-128. 1906.
- . In defence of *Incisalia henrici*. 15: 123-128. 1907.
- COOLIDGE, KARL R. The life history of *Thanaos funeralis* Scud. and Burg. (Lepidoptera: Hesperiidæ). 31: 175-181. 1923.

- COOPER, KENNETH W. A new species of *Belonuchus* Nordm. (Col. Staphylinidæ). 41: 545-546. 1933.
- COQUILLETT, D. W. Synopsis of the dipterous genus *Symphoromyia*. 2: 53-56. 1894.
- . Revision of the dipterous family Therevidæ. 2: 97-101. 1894.
- . A new *Anthrax* from California. 2: 101-102. 1894.
- . Notes and descriptions of Tachinidæ. 3: 49-58. 1895.
- . New genera and species of Tachinidæ. 3: 97-107. 1895.
- . Notes and descriptions of Oscinidæ. 6: 44-49. 1898.
- . On the dipterous family Scatophagidæ. 6: 160-165. 1898.
- . A new dipterous genus belonging to the Therevidæ. 6: 187-188. 1898.
- . Descriptions of some lepidopterus larvæ. 6: 249-250. 1898.
- . On the early stages of some California Lepidoptera. 7: 209-212. 1899.
- . New genera and species of Dexidæ. 7: 218-222. 1899.
- . Notes and descriptions of Trypetidæ. 7: 259-268. 1899.
- . Notes and descriptions of Ortalidæ. 8: 21-25. 1900.
- . Descriptions of three lepidopterous larvæ. 9: 85-86. 1901.
- . Types of anthomyid genera. 9: 134-146. 1901.
- . New Orthorrhaphous Diptera from Mexico and Texas. 10: 136-141. 1902.
- . Note on a noctuid larva. 10: 169. 1902.
- . New acalyptrate Diptera from North America. 10: 177-191. 1902.
- . New forms of Culicidæ from North America. 10: 191-194. 1902.
- . Diptera from southern Texas with descriptions of new species (Diptera). 12: 31-35. 1904.
- . A new *Ceratopogon* from Brazil. 12: 35-36. 1904.
- . New nematocerous Diptera from North America. 13: 56-59. 1905.
- CRAMPTON, G. C. On the misuse of the terms parapteron, hypopteron, tegula, squamula, patagium and scapula. 22: 248-261. 1914.
- . Phylogenetic origin and the nature of the wings of insects according to the paranotal theory. 24: 1-39. 1916.
- . The orders and relationships of Apterygotan insects. 24: 267-301. 1916.
- . A phylogenetic study of the terminal abdominal segments and appendages in some female Apterygotan and lower Pterygotan insects. 25: 225-237. 1917.
- . The phylogenetic origin of the mandibles of insects and their arthropodan relatives—a contribution to the study of the evolution of the Arthropoda. 29: 63-100. 1921.
- . A phylogenetic comparison of the maxillæ throughout the orders of insects. 31: 77-107. 1923.

- . The terminal abdominal structure of female insects compared throughout the orders from the standpoint of phylogeny. 37: 453-511. 1929.
- . Phylogenetic study of the posterior metathoracic and basal abdominal structures of insects, with particular reference to the Holometabola. 39: 323-357. 1931.
- . The affinities of the archaic Orthopteroid family Grylloblattidæ, and its position in the general phylogenetic scheme. 41: 127-166. 1933.
- . A defense of the view that the Grylloblattids are descended from the Protorthoptera and lead to the Tettigonioid family Stenopelmatidæ—a reply to Dr. E. M. Walker. 43: 97-111. 1935.
- CRAWFORD, J. C. New North American Hymenoptera. 15: 177-183. 1907.
- . Notes on some species of the genus *Halictus*. 15: 183-189. 1907.
- . Thysanoptera from northern New Jersey with descriptions of new species. 47: 69-81. 1939.
- CREIGHTON, WILLIAM STEEL. A review of the genus *Myrmoterus* (Hymenoptera, Formicidæ). 38: 177-192. 1930.
- . On formicid nomenclature. 46: 1-9. 1938.
- . A generic reallocation for *Myrmoterus kuroiwa*. 47: 39-40. 1939.
- CROSBY, CYRUS R. Notes on some phalangids collected near Ithaca, N. Y. 12: 253-256. 1904.
- , AND SHERMAN C. BISHOP. New species of Erigoneæ and Theridiidæ. 35: 147-157. 1927.
- , AND NELLIE H. CROSBY. A new seed-infesting chalcid-fly from China. 37: 13-15. 1929.
- . See BISHOP, SHERMAN C. 38: 15-33. 1930.
- , AND SHERMAN C. BISHOP. Studies in American spiders: genera *Cornicularia*, *Paracornicularia*, *Tigellinus*, *Walckenaera*, *Epiceraticelus*, and *Pelecopsis*, with descriptions of new genera and species. 39: 359-403. 1931.
- . See BISHOP, SHERMAN C. 40: 393-421. 1932.
- . See BISHOP, SHERMAN C. 42: 215-219. 1934.
- . See BISHOP, SHERMAN C. 43: 31-45. 1935.
- . See BISHOP, SHERMAN C. 43: 217-241. 1935.
- , AND SHERMAN C. BISHOP. Aeronautic spiders with a description of a new species. 44: 43-49. 1936.
- . See BISHOP, SHERMAN C. 46: 55-107. 1938.
- CUMLEY, RUSSELL W. Comparison of serologic and taxonomic relationship of *Drosophila* species. 48: 265-274. 1940.
- , AND SOL HABERMAN. Serological investigation of *Drosophila* antigens with the complement fixation reaction. 46: 401-415. 1938.
- . See HABERMAN, SOL. 47: 219-226. 1939.
- . See MICKEY, GEORGE H. 49: 77-84. 1941.

- CURRAN, C. HOWARD. On the generic position of *Asilus cacopillogus* Hine. (Asilidæ). 32: 73. 1924.
- . Three new Diptera from Canada. 38: 73-76. 1930.
- . Some new species of *Mallophora* Macquart (Asilidæ, Diptera). 49: 269-284. 1941.
- . The parasitic habits of *Muscina stabulans* Fabricius. 50: 335-336. 1942.
- DAECKE, E. Proceedings of the New York Entomological Society. 7: 176. 1899.
- . Proceedings of the New York Entomological Society. 8: 49-50. 1900.
- . Notes on the habits of *Thecla damon*. 9: 26-27. 1901.
- . The larva of *Phiprosopus callitrichoides*. 11: 105. 1903.
- DALMAT, HERBERT T. A new parasitic fly (Cuterebridæ) from the northern white-footed mouse. 50: 45-59. 1942.
- DANBY, W. H. Notes on Lepidoptera found on Vancouver Island. 2: 31-36. 1894.
- DARLINGTON, E. P. Blueberry and cranberry culture. 46: 229-230. 1938.
- DAVIDSON, RALPH H. See DELONG, DWIGHT M. 42: 221-224. 1934.
- DAVIS, NORMAN W. A new opilionid from Florida (Arachnida, Cyphophthalmi). 41: 49-54. 1933.
- . A cyphophthalmid from South America (Arachnida, Phalangida). 45: 133-137. 1937.
- DAVIS, WILLIAM T. Catalogue of the butterflies of Staten Island, New York. 1: 43-48. 1893.
- . The seventeen-year cicada on Staten Island. 2: 38-39. 1894.
- . Note on the periodical cicada. 2: 96. 1894.
- . An exodus of water beetles. 2: 191. 1894.
- . Insects at Watchogue and Beulah Land, Staten Island, N. Y. 3: 140-143. 1895.
- . The dog's head butterfly on Staten Island. 4: 200. 1896.
- . Intelligence shown by caterpillars in placing their cocoons. 5: 42-44. 1897.
- . Preliminary list of the dragonflies of Staten Island, with notes and dates of capture. 6: 195-198. 1898.
- . Whirligig beetles taking a sun-bath. 7: 222. 1899.
- . Caterpillars attacked by Histers (Coleoptera). 12: 88-90. 1904.
- . A new *Orchelimum* from Staten Island and New Jersey. 16: 222-223. 1908.
- . Owl pellets and insects. 17: 49-51. 1909.
- . The camp at Lakehurst. 17: 95-98. 1909.
- . A cricket new to New Jersey. 17: 187-188. 1909.
- . Miscellaneous notes on collecting in Georgia. 18: 82-85. 1910.
- . The periodical cicada on Long Island, N. Y., in 1910. 18: 259-260. 1910.

- . Notes on the distribution of several species of tiger beetles. 20: 17-20. 1912.
- . A symmetrically deformed dragonfly. 20: 68. 1912.
- . Noteworthy Hemiptera collected on Long Island, N. Y. 19: 112-113. 1911.
- , AND C. W. LENG. Insects on a recently felled tree. 20: 119-121. 1912.
- DAVIS, WILLIAM T. Three new species of *Belocephalus* from Florida. 20: 122-125. 1912.
- . *Vanessa milberti* in New York City and vicinity in 1910. 19: 198. 1911.
- . *Pamphila phylæus* Drury. 19: 199. 1911.
- . Arrival of *Danaus plexippus* in the spring. 19: 199. 1911.
- . *Cicindela purpurea limbalis* in the vicinity of New York City. 19: 199-200. 1911.
- . Miscellaneous notes on collecting in Georgia. 19: 216-219. 1911.
- . The periodical cicada in the Half Way Hollow Hills, Long Island, N. Y. 19: 261. 1911.
- . A migration of Red Admiral butterflies. 20: 293-294. 1912.
- . Pink katy-dids. 20: 294. 1912.
- . Dragonflies of the vicinity of New York City with a description of a new species. 21: 11-29. 1913.
- . *Anthonomus scutellaris* on beach plum. 21: 160. 1913.
- . Two additions to the list of New Jersey cone-headed grasshoppers. 21: 177-178. 1913.
- . *Coscinoptera dominicana*. 21: 311. 1913.
- . *Prionapteryx nebulifera*. 21: 313. 1913.
- . The fungus-growing ant on Long Island, New York. 22: 64-65. 1914.
- . Can *Cicindela unipunctata* fly? 22: 74. 1914.
- . Water beetles taking a sun bath. 22: 74-75. 1914.
- . Notes on Orthoptera from the East Coast of Florida with descriptions of two new species of *Belocephalus*. 22: 191-205. 1914.
- . Additions to the Orthoptera known to occur in North Carolina. 22: 265-266. 1914.
- . A cricket new to Long Island, N. Y. 22: 171-172. 1914.
- . John Arthur Grossbeck, with a bibliography of his published writings. 22: 271-275. 1914.
- . Some additions to the New Jersey list of Lepidoptera. 22: 332-333. 1914.
- . Notes on some cicadas from the eastern and central United States with a description of a new variety of *Cicada pruinosa*. 23: 1-10. 1915.
- . New species of cicadas from California and Utah. 23: 11-21. 1915.
- . A Long Island ant's nest eighteen feet in diameter. 23: 69. 1915.

- . List of the Orthoptera collected in northern Florida in 1914 for the American Museum of Natural History, with descriptions of new species. 23: 91-101. 1915.
- . *Silpha surinamensis* and *Creophilus villosus* as predaceous insects. 23: 150-151. 1915.
- . Some of the insects of Chesapeake Beach, Maryland. 23: 153-154. 1915.
- . A new variety of *Cicada* resembling *C. dorsata*. 23: 161-164. 1915.
- . A new cicada from Arizona. 23: 239-241. 1915.
- . Shooting insects with a bean-shooter. 23: 253-254. 1915.
- . Notes on cicadas from the United States with descriptions of several new species. 24: 42-65. 1916.
- . Additional records of the deer bot-fly *Cephenomyia abdominalis*. 24: 92-93. 1916.
- . See WOODRUFF, LEWIS B. 24: 153-154. 1916.
- . Notes on tiger beetles from North Carolina. 24: 154-155. 1916.
- . Two new cicadas belonging to the genus *Okanagana*. 24: 233-236. 1916.
- . Louis H. Joutel. 24: 239-243. 1916.
- . Two new cicadas from Lower California, Mexico. 25: 6-10. 1917.
- . Records of *Cænomyia ferruginea* in the vicinity of New York City. 25: 134. 1917.
- . *Cænomyia ferruginea* Scopoli. 25: 196. 1917.
- . *Ammodonotus fossor* on Staten Island. 25: 126-127. 1917.
- . *Cicada hieroglyphica* Say. 25: 196. 1917.
- . Sonoran cicadas collected by Harry H. Knight, Dr. Joseph Bequaert and others, with descriptions of new species. 25: 203-215. 1917.
- . Charles Edwin Sleight. 26: 47-48. 1918.
- . *Cicindela abdominalis* Fab. 26: 48. 1918.
- . *Holcaspis centricola* Osten Sacken. 26: 48. 1918.
- . *Rhodites gracilis* Ashm. 26: 48. 1918.
- . The moth *Anacamptis innoculella* at Cold Spring, Long Island, N. Y. 26: 111-112. 1918.
- . Book Notice. A Year of Costa Rican Natural History. By Amelia Smith Calvert and Philip Powell Calvert. 26: 112. 1918.
- . Mississippi cicadas, with key to the species of the southeastern United States. 26: 141-155. 1918.
- . Tandem dragonflies. 26: 226. 1918.
- . *Hapithus agitator* Uhler. 26: 227. 1918.
- . The honey-dew of aphids very attractive to moths and roaches. 26: 227. 1918.
- . Cicadas of the genus *Cacama*, with descriptions of several new species. 27: 68-79. 1919.

- . *Tibicen inauditus*. 27: 108. 1919.
- . *Dorcasta obtusa*. 27: 108. 1919.
- . The males of the roach *Pycnoscelus surinamensis*. 27: 108–109. 1919.
- . Cicadas of the genera *Okanagana*, *Tibicinoides* and *Okanagodes*, with descriptions of several new species. 27: 179–223. 1919.
- . A new cicada of the genus *Melampsalta*. 27: 340–341. 1919.
- . A dark form of *Stagmomantis floridensis*. 27: 341. 1919.
- . A belated *Tibicina cassinii*. 27: 341–342. 1919.
- . The true katydid nearly extinct in New York City. 28: 78–80. 1920.
- . North American cicadas belonging to the genera *Platypedia* and *Melampsalta*. 28: 95–135. 1920.
- . Book Notice. Orthoptera of Northeastern America. By W. S. Blatchley. 28: 239–240. 1920.
- . Book Notice. Manual of the Orthoptera of New England. By Albert P. Morse. 28: 240–241. 1920.
- . Records of cicadas from North America with descriptions of new species. 29: 1–16. 1921.
- . An annotated list of the cicadas of Colorado with descriptions of new species. 29: 43–57. 1921.
- . An annotated list of the cicadas of Virginia, with description of a new species. 30: 36–52. 1922.
- . Notes on katydids. 30: 73–74. 1922.
- . Book Notice. Applied Entomology. By H. T. Fernald. 30: 135–136. 1922.
- . Notes on North American cicadas with descriptions of new species. 31: 1–15. 1923.
- . A new walking-stick insect from eastern North America. 31: 52–55. 1923.
- . A northern form of the butterfly *Neonympha areolatus*. 32: 105–107. 1924.
- . Cicada-killing wasps and flies. 32: 113. 1924.
- . *Melanoplus differentialis* (Thomas) a new grasshopper to the state of New York. 32: 215. 1924.
- . *Cicada tibicen*, a South American species, with records and descriptions of North American cicadas. 33: 35–51. 1925.
- . The female of the roach *Parcoblatta caudelli*, and the occurrence of the species on Long Island, N. Y. 33: 188–189. 1925.
- . *Pantala flavescens* captured by *Anax junius*. 33: 189. 1925.
- . Lewis Bartholomew Woodruff. 34: 23–25. 1926.
- . An annotated list of the Dermaptera and Orthoptera collected in mid-summer at Wingina, Virginia, and vicinity. 34: 27–41. 1926.
- . The wasp, *Bembidula quadrifasciata*. 34: 89–90. 1926.
- . New cicadas from California and Arizona with notes on several other species. 34: 177–197. 1926.

- . Annie Trumbull Slosson. 34: 361-365. 1926.
- . Book Notice. Heteroptera of Eastern North America. By W. S. Blatchley. 34: 374. 1926.
- . The rearing of pink katy-dids. 35: 171-174. 1927.
- . New cicadas from the western United States with notes on several other species. 35: 373-389. 1927.
- . Book Notice. Guide to the Insects of Connecticut, Part V. The Odonata or Dragonflies of Connecticut. By Philip Garman. 35: 415. 1927.
- . Book Notice. Histological Technique. By B. F. Kingsbury and O. A. Johannsen. 35: 415. 1927.
- . The cicadas of Porto Rico with a description of a new genus and species. 36: 29-34. 1928.
- . Cicadas belonging to the genus *Diceroprocta* with description of new species. 36: 439-458. 1928.
- . Notes on dragonflies of the genus *Neurocordulia*. 37: 449-450. 1929.
- . Book Notice. Insect Singers, A Natural History of the Cicadas. By J. G. Meyers. 37: 451. 1929.
- . Book Notice. Studies on the Biology of Kansas Cicadidæ. By Raymond H. Beamer. 37: 451-452. 1929.
- . Rearing the young of the viviparous cockroach, *Panchlora cubensis*. 38: 85-88. 1930.
- . The distribution of cicadas in the United States with descriptions of new species. 38: 53-72. 1930.
- , AND CHARLES W. LENG. Book Notice. Blatchleyana. A list of the published writings of W. S. Blatchley. 38: 469. 1930.
- . Book Notice. In Days Agone. By W. S. Blatchley. 40: 502. 1932.
- . Additional records of North American cicadas with descriptions of new species. 40: 241-265. 1932.
- . New cicadas from North America. 42: 37-63. 1934.
- . New cicadas with notes on North American and West Indian species. 43: 173-199. 1935.
- . Six new cicadas from the western United States. 43: 299-310. 1935.
- . A remarkable cicada from Mexico and other North American species. 44: 101-123. 1936.
- . A second record of the dragonfly *Neurocordulia virginiensis*. 45: 250. 1937.
- . New North American cicadas with notes on described species. 46: 291-311. 1938.
- . Cicadas collected in the Cayman Islands by the Oxford University Biological Expedition of 1938. 47: 207-212. 1939.
- . New cicadas from North America and the West Indies. 47: 287-302. 1939.

- . New cicadas from North America with notes. 49: 85-100. 1941.
- . Charles W. Leng and the New York Entomological Society. 49: 189-192. 1941.
- . Notes on cicadas with descriptions of new species. 50: 169-187. 1942.
- . In memory of Charles Schaeffer. Compiled from memoranda found among the papers of the late Charles W. Leng. 50: 209-210. 1942.
- DAWSON, R. W. New species of *Serica* (Scarabæidæ). 27: 32-39. 1919.
- . New species of *Serica* (Scarabæidæ), II. 27: 223-225. 1919.
- . New species of *Serica* (Scarabæidæ), III. 28: 208-212. 1920.
- . New species of *Serica* (Scarabæidæ), IV. 29: 160-168. 1921.
- . New species of *Serica* (Scarabæidæ), V. 30: 154-169. 1922.
- . New species of *Serica* (Scarabæidæ), VI. 40: 529-562. 1932.
- . New species of *Serica* (Scarabæidæ), VII. 41: 435-440. 1933.
- . Technique for the dissection of *Serica*. 43: 341-343. 1935.
- DECKER, GEORGE C. Biology of the *Bidens* borer, *Epiblema otiosana* (Clemens) (Lepidoptera, Olethreutidæ). 40: 503-509. 1932.
- DE LA TORRE BUENO, J. R. Notes on the Notonectidæ of the vicinity of New York. 10: 230-236. 1902.
- . A preliminary list of the Pentatomidæ within fifty miles of New York. 11: 128-129. 1903.
- . Brief notes toward the life history of *Pelocoris femorata* Pal. B. with a few remarks on habits. 11: 166-173. 1903.
- . Note on Pentatomidæ. 11: 228. 1903.
- . A list of certain families of Hemiptera occurring within seventy miles of New York. 12: 251-253. 1904.
- . A list of certain families of Hemiptera occurring within seventy miles of New York. 13: 29-47. 1905.
- . The genus *Notonecta* in America north of Mexico. 13: 143-167. 1905.
- . Hemiptera Heteroptera of Westchester County, N. Y. 16: 223-238. 1908.
- . The notonectid genus *Buenoa* Kirkaldy. 17: 74-77. 1909.
- . Westchester Heteroptera. II. Additions, corrections and new records. 18: 22-23. 1910.
- DELEON, DONALD. The morphology of *Caloides dendroctoni* Cushman (Hymenoptera: Braconidæ). 42: 297-317. 1934.
- DELONG, DWIGHT M. Some new Cicadellidæ (Homoptera) from the southern United States. 32: 63-69. 1924.
- . See BALL, E. D. 34: 241-242. 1926.
- , and RALPH H. DAVIDSON. Some new species of Cicadellidæ (Homoptera) from the United States. 42: 221-224. 1934.
- DETHIER, V. G. Prothoracic glands of adult Lepidoptera. 47: 131-144. 1939.
- . Abdominal glands of Hesperinæ. 50: 203-207. 1942.

- DICKERSON, EDGAR L. Proceedings of the New York Entomological Society. 20: 71-75. 1912.
- . Proceedings of the New York Entomological Society. 20: 136-142. 1912.
- . Proceedings of the New York Entomological Society. 20: 197-208. 1912.
- . Proceedings of the New York Entomological Society. 20: 295-300. 1912.
- , and HARRY B. WEISS. The ash leaf-bug, *Neoborus amœnus* Reut. (Hem.). 24: 302-306. 1916.
- . Notes on *Leptobyrsa rhododendri* Horv. 25: 105-112. 1917.
- , and HARRY B. WEISS. *Idiocerus scurra* Germar, a popular leaf-hopper. 25: 218-224. 1917.
- . See WEISS, HARRY B. 26: 18-23. 1918.
- . See WEISS, HARRY B. 27: 39-68. 1919.
- , and HARRY B. WEISS. Notes on the early stages and life history of *Idiocerus cognatus* Fieb., in New Jersey. 27: 129-132. 1919.
- , and HARRY B. WEISS. The insects of the evening primroses in New Jersey. 28: 32-74. 1920.
- DIETRICH, H. The Dutch elm disease. 46: 232-233. 1938.
- DITMARS, R. L. Note on a collecting tour in Connecticut. 3: 62-65. 1895.
- DOANE, R. W. The immature stages of *Diabrotica soror*. 5: 15-17. 1897.
- . Notes on Trypetidæ with descriptions of new species. 7: 177-193. 1899.
- . Additional notes on Trypetidæ. 8: 47-48. 1900.
- . New North American Tipulidæ. 8: 182-198. 1900.
- . Descriptions of new Tipulidæ. 9: 97-126. 1901.
- DOBBINS, T. N. See HAWLEY, I. M. 1941.
- DOBROSKY, IRENE D. Collecting parasites in the Philippines. 42: 368-369. 1934.
- DOBZHANSKY, THEODORE. A list of Coccinellidæ of British Columbia. 43: 331-336. 1935.
- . Species as they appear to a geneticist. 50: 291. 1942.
- DOLLEY, WILLIAM L., JR., AND E. J. FARRIS. Unicellular glands in the larvæ of *Eristalis tenax*. 37: 127-134. 1929.
- DOW, ROBERT PERCY. On the origin of entomological names. 17: 51-56. 1909.
- . A new variety of *Trogosita virescens*. 20: 70-71. 1912.
- . John Abbot, of Georgia. 22: 65-72. 1914.
- . *Malachius æneus* Linn. 22: 73. 1914.
- . The greatest Coleopterist. 22: 185-191. 1914.
- . Migration of *Pyrameis cardui*. 32: 121. 1924.
- . Migration of *Pyrameis cardui*. 34: 287-288. 1926.
- DOZIER, H. L. A new fulgorid from Porto Rico. 35: 53-54. 1927.
- . Notes on new and interesting delphacids. 34: 257-263. 1926.

- DRIGGERS, BYRLEY F. The blueberry tip worm (*Contarinia vaccinii* Felt), a new species of midge attacking cultivated blueberries. 34: 82-85. 1926.
- . Galls on stems of cultivated blueberry (*Vaccinium corymbosum*) caused by a Chalcidoid, *Hemadas nubilipennis* Ashm. 36: 253-259. 1927.
- . Some hibernation quarters of the Oriental fruit moth. 36: 435-437. 1928.
- . Notes on the life history and habits of the blueberry stem borer, *Oberia myops* Hald., on cultivated blueberries. 37: 67-75. 1929.
- . Cocoon parasites of the Oriental fruit moth. 40: 489-496. 1932.
- DURY, CHARLES. On Cioidæ. 22: 172-173. 1914.
- . *Stenomimus pallidus*. 23: 197. 1915.
- . An appreciation of the weevil book. 25: 81. 1917.
- . Notes on *Cychnus* and the sad misfortunes of an entomologist. 32: 122-123. 1924.
- DYAR, HARRISON G. See NEUMOESEN, B. 1: 29-35. 1893.
- . See NEUMOESEN, B. 1: 97-118; 153-180. 1893.
- . See NEUMOESEN, B. 2: 1-30; 57-76; 109-132; 147-174. 1894.
- . Life history of *Falcaria bilineata* Packard. 2: 108. 1894.
- . A combination of two classifications of Lepidoptera. 3: 17-26. 1895.
- . Notes on two *Callimorphas*. 3: 59-60. 1895.
- . Notes on orepanid larvæ. 3: 66-69. 1895.
- . Larva of *Demas propinquilinea*; its systematic position. 3: 130-131. 1895.
- , AND EMILY L. MORTON. The life-histories of the New York slug caterpillars. I. 3: 145-157. 1895.
- . A new *Datana*. 3: 167. 1895.
- . Correction of a misidentification—*Attacus splendidus*. 3: 191. 1895.
- , AND EMILY L. MORTON. The life-histories of the New York slug caterpillars. II. 4: 1-9. 1896.
- . A new Gloveria. 4: 22-26. 1896.
- . On the probable origin of the Pericopidæ: *Composia fidelissima* H.-S. 4: 68-72. 1896.
- . The larva of *Syntomeida epilais* Walk. 4: 72-73. 1896.
- . A description of the larva found by Mrs. Slosson. 4: 87-88. 1896.
- . Note on the head setæ of lepidopterous larvæ, with special reference to the appendages of *Perophora melsheimerii*. 4: 92-93. 1896.
- . The life-history of the Florida form of *Euclea delphinii*. 4: 125-129. 1896.
- . Descriptions of two noctuid larvæ. 4: 145. 1896.
- . A new *Anisota*. 4: 166. 1896.
- . The life-histories of the New York slug caterpillars. III-VI. 4: 167-190. 1896.

- . Life-histories of the New York slug caterpillars. VII-IX. 5: 1-14. 1897.
- . On the larvæ of certain saw-flies (Tenthredinidæ). 5: 18-30. 1897.
- . *Oeta floridana* Neumoegen. 5: 48. 1897.
- . Life-histories of the New York slug caterpillars. X-XI. 5: 57-66. 1897.
- . Note on Mr. Grote's remarks on the Saturnians. 5: 66. 1897.
- . *Gluphisia severa* in New Jersey. 5: 96. 1897.
- . On the white Eucleidæ and the larva of *Calybia slossoniæ* (Packard). 5: 121-126. 1897.
- . A comparative study of seven young Aretians. 5: 130-133. 1897.
- . Notes on the larva of *Lagoa pyxidifera*. 5: 160. 1897.
- . The life-histories of the New York slug caterpillars. XII. 5: 167-170. 1897.
- . New sawflies (Tenthredininae) with descriptions of larvæ. 5: 190-201. 1897.
- . The life-histories of the New York slug caterpillars. XIII-XIV. 6: 1-9. 1898.
- . New American moths and synonymical notes. 6: 33-44. 1898.
- . The life-histories of the New York slug caterpillars. XV. 6: 94-98. 1898.
- . On the larvæ of certain Nematinae and Blennocampinae, with descriptions of new species. 6: 121-138. 1898.
- . Description of larvæ of Hemileucids from the Argentine Republic. 6: 150. 1898.
- . The life-histories of the New York slug caterpillars. XVI, with certain additions and corrections. 6: 151-158. 1898.
- . Life-history of *Calybia slossoniæ*. 6: 158-160. 1898.
- . Notes on certain South American Cochlidiidæ and allied families. 6: 231-239. 1898.
- . The life-histories of the New York slug caterpillars. XVII. 6: 241-246. 1898.
- . The life-histories of the New York slug caterpillars. XVIII. 7: 61-67. 1899.
- . Life-history of *Diphtheria fallax* H.-S. 7: 67-68. 1899.
- . Note on the secondary abdominal legs in Megalopygidæ. 7: 69-70. 1899.
- . Note on two *Hydræcia* larvæ. 7: 70. 1899.
- . The Megalopygid genus *Trosia*, with description of a new species. 7: 173-174. 1899.
- . New species of Syntomidæ. 7: 174-176. 1899.
- . Life-history of a European slug caterpillar, *Cochlidion avellana*. 7: 202-208. 1899.
- . A new genus of Cochlidiionidæ from Virginia. 7: 208-209. 1899.

- . The life-histories of the New York slug caterpillars. 7: 234–253. 1899.
- . Description of the mature larva of *Acronycta connecta*. 7: 253. 1899.
- . On the larvæ of *Atomacera* and some other saw-flies. 8: 26–31. 1900.
- . A new Zygenid from Arizona. 8: 32. 1900.
- . Preliminary notes on the larvæ of the genus *Arctia*. 8: 34–47. 1900.
- . Notes on the larval-cases of Lacosomidæ (Perophoridæ) and life history of *Lacosoma chiridota* Grt. 8: 177–180. 1900.
- . Descriptions of some pyralid larvæ from southern Florida. 9: 19–24. 1901.
- . An apparently new tortricid from Florida. 9: 24–25. 1901.
- . Note on the larva of *Arctia intermedia*. 9: 25–26. 1901.
- . Note on the larva of *Psaphidia thaxterianus*. 9: 84–85. 1901.
- . Diagnosis of a new Aretian. 9: 85. 1901.
- . Descriptions of the larvæ of three mosquitoes. 9: 177–179. 1901.
- . The life-history of *Uranotenia sapphirina* O.S. 9: 179–182. 1901.
- . The larva of *Carama cretata*. 10: 54. 1902.
- . A generic subdivision of the genus *Plusia*. 10: 79–82. 1902.
- . The larva of *Euthisanotia timais* Cram. 10: 125–126. 1902.
- . The life-history of *Ellida caniplaga*. 10: 143–146. 1902.
- . Illustrations of the larvæ of North American Culicidæ, II. 10: 194–201. 1902.
- . A review of the genus *Ethmia* with descriptions of new species. 10: 202–208. 1902.
- . A new *Yponomeuta*. 10: 208. 1902.
- . Illustrations of the larvæ of North American Culicidæ, III. 11: 23–27. 1903.
- . A review of the North American species of *Pronuba* and *Prodoxus*. 11: 102–104. 1903.
- . The real larva of *Xanthopastis timais* Cramer. 11: 104. 1903.
- . The life-history of *Culex cantans* Meigen. 12: 36–38. 1904.
- . New species of North American Lepidoptera and a new Limaecodid larva. 12: 39–44. 1904.
- . The life history of *Culex varipalpas* Coquillett (Diptera). 12: 90–92. 1904.
- . New Lepidoptera from the United States. 12: 105–108. 1904.
- , AND A. N. CAUDELL. The types of genera. 12: 120–122. 1904.
- . The larva of *Culex punctor* Kirby, with notes on an allied form. 12: 169–171. 1904.
- . Brief notes on mosquito larvæ. 12: 172–174. 1904.
- . Two notes on tineid moths. 12: 178. 1904.

- . Brief notes on mosquito larvæ (Diptera). 12: 243-246. 1904.
- . Poison ivy caterpillars (Lepidoptera). 12: 249-250. 1904.
- . A synoptic table of North American mosquito larvæ (Diptera). 13: 22-26. 1905.
- . Brief notes on mosquito larvæ. 13: 26-29. 1905.
- . A new mosquito. 13: 74. 1905.
- . Brief notes on mosquitoes (Diptera). 13: 107-109. 1905.
- . A review of the Hesperiidæ of the United States. 13: 111-142. 1905.
- . Illustrations of the abdominal appendages of certain mosquitoes, 13: 185-188. 1905.
- . A new *Oncocnemis* from Nevada. 13: 211. 1905.
- . Descriptions of new American moths. 14: 30-31. 1906.
- . The North American Nymphulinæ and Scopariinæ (Lepidoptera). 14: 77-107. 1906.
- . Descriptions of four new species of North American moths. 14: 107-108. 1906.
- , AND FREDERICK KNAB. The larvæ of Culicidæ classified as independent organisms. 14: 169-230. 1906.
- AND ———. Descriptions of some American mosquitoes. 15: 9-13. 1907.
- . Description of the larva of *Tortricidia fiskeana* Dyar. 15: 18. 1907.
- . Descriptions of new American Lepidoptera. 15: 50-53. 1907.
- , AND FREDERICK KNAB. New American mosquitoes. 15: 100-101. 1907.
- . New American moths. 15: 105-110. 1907.
- . *Botis toralis* Grote. 15: 104-105. 1907.
- , AND FREDERICK KNAB. Descriptions of new mosquitoes from the Panama Canal Zone. 15: 197-212. 1907.
- AND ———. Descriptions of three new North American mosquitoes. 15: 212-214. 1907.
- . The life-histories of the New York slug caterpillars. XIX. 15: 219-226. 1907.
- . New American Lepidoptera. 15: 226-234. 1907.
- . Book Notice. A Monograph of the Culicidæ of the World. By F. W. Theobald. 15: 239-248. 1907.
- . The life-histories of the New York slug caterpillars. XX. 22: 223-229. 1914.
- EHRMAN, GEORGE A. A strange form of *Catocala*. 1: 152. 1893.
- . New West African butterflies. 2: 77-78. 1894.
- ELIIS, MARION DURBIN. New bees of the genus *Halictus* (Hym.) from United States, Guatemala and Ecuador. 22: 218-223. 1914.
- EMERTON, J. H. New spiders from the neighborhood of Ithaca, N. Y. 22: 262-264. 1914.
- ENGELHARDT, ELIZABETH S. Proceedings of the New York Entomological Society. 42: 363-372. 1934.

- . Proceedings of the New York Entomological Society. 43: 243–252. 1935.
- . Proceedings of the New York Entomological Society. 44: 79–80. 1936.
- . Proceedings of the New York Entomological Society. 44: 171–175. 1936.
- . Proceedings of the New York Entomological Society. 44: 253–259. 1936.
- ENGELHARDT, GEORGE P. *Calpodes ethlius* on Long Island. 20: 70. 1912.
- . A hemipteron on carrion. 20: 294. 1912.
- . *Iphiclidea ajax* Linnaeus on Long Island and *Catopsilia philea* Linnaeus in New York City. 21: 161–162. 1913.
- ENZMANN, E. V. See HASKINS, C. P. 46: 453–455. 1938.
- EVANS, W. H. The type of the genus *Pyrrhopyge* (Lepidoptera, Hesperiidæ). 48: 405–411. 1940.
- EWING, H. E. New American Oribatoidea. 17: 116–136. 1909.
- . Notes on pseudoscorpions. a study on the variations of our common species *Chelifer cancroides* Linn., with systematic notes on other species. 19: 65–81. 1911.
- EXLINE, HARRIET, AND MELVILLE H. HATCH. Note on the food of the black widow spider. 42: 449–450. 1934.
- FALL, H. C. Synopsis of the species of *Acmæodera* of America, north of Mexico. 7: 1–37. 1899.
- . On the affinities of the genus *Tachycellus*, with descriptions of new species from the western United States. 13: 169–178. 1905.
- . New genera and species of North American Cerambycidae. 15: 80–87. 1907.
- . A short synopsis of the species of *Ochodæus* inhabiting the United States. 17: 30–38. 1909.
- . *Chrysobothris californica* and allies. 18: 45–52. 1910.
- . A review of the North American species of *Collops* (Col.). 20: 249–274. 1912.
- . New Dytiscidæ. 25: 163–182. 1917.
- . New North American species of *Apion*. 26: 218–223. 1918.
- . New species of North American Hydrobiini. 32: 85–92. 1924.
- . New species of *Helmis* (Coleoptera). 33: 177–181. 1925.
- . A new genus and species of Dytiscidæ. 35: 177–178. 1927.
- . On *Atenius strigatus* Say and allied species (Coleoptera). 38: 93–108. 1930.
- . New North American Scarabæidæ, with remarks on known species. 40: 183–204. 1932.
- . On certain North American Elateridæ, new and old. 42: 7–36. 1934.
- . The North American species of *Nemadus* Thom., with descriptions of new species (Coleoptera, Silphidæ). 45: 335–340. 1937.
- FARRELL, C. C. See GLASER, R. W. 43: 345–371. 1935.

- FEDERLEY, HARRY. Sound produced by lepidopterous larvæ. 13: 109-110. 1905.
- FELT, EPHRAIM PORTER. A generic synopsis of the Itonidæ. 19: 31-62. 1911.
- . Three new gall midges (Dipt.). 19: 190-194. 1911.
- . *Miaster* larvæ. 19: 200-201. 1911.
- . New Itonididæ (Dipt.). 20: 102-107. 1912.
- . New gall midges or Itonidæ (Dipt.). 20: 146-156. 1912.
- . Studies in Itonididæ. 20: 236-248. 1912.
- . Fiery ground beetle (*Calosoma calidum* Fabr.). 20: 292-293. 1912.
- . *Neuroterus saltatorius* Hy. Edw. 20: 293. 1912.
- . Two-spotted ladybeetle (*Adalia bipunctata* Linn.). 20: 293. 1912.
- . Gall midges in an aquatic or semiaquatic environment. 21: 62-63. 1913.
- . Periodical cicada (*Tibicen septendecem* Linn.). 21: 160-161. 1913.
- . Nature's surgery. 21: 161. 1913.
- . Descriptions of gall midges (Diptera). 21: 213-219. 1913.
- . *Drosophila repleta* Woll. 21: 273-274. 1913.
- . Blow fly studies. 21: 274. 1913.
- . Mites and a fly. 21: 274-275. 1913.
- . *Platypus punctulatus* Chap. 21: 275. 1913.
- . Cryptic coloration. 21: 312. 1913.
- . Descriptions of gall midges. 22: 124-134. 1914.
- . New Asian gall midges. 23: 173-184. 1915.
- . New western gall midges. 24: 175-196. 1916.
- . New gall midges. 25: 193-196. 1917.
- . *Liophlæus tessulatus* Müller. 26: 225. 1918.
- . New gall midges or Itonididæ from the Adirondacks. 27: 277-292. 1919.
- . New species of reared gall midges (Itonididæ). 29: 115-118. 1921.
- . A new African gall midge. 36: 123-124. 1928.
- . A new enemy of the pineapple mealybug and a list of the gall midge enemies of mealybugs. 41: 87-89. 1933.
- . Classifying symbols for insects. 42: 373-392. 1934.
- . A new gall midge. 43: 47. 1935.
- . A gall midge on pine cones. 43: 48-49. 1935.
- . New midges on pine and grass. 44: 7-9. 1936.
- . A note on *Lasioptera murtfeldtiana* Felt. 46: 44. 1938.
- . A new gall midge on rhododendron. 47: 41-42. 1939.
- FENYES, A. *Falagria* Mannh., and its relatives. 20: 20-27. 1912.
- FERNALD, C. H. New Pyralidæ and Tortricidæ from Palm Beach, Florida. 9: 49-52. 1901.

- FERRIS, G. F. Some records of Polycetenidæ (Hemiptera). 27: 261-263. 1919.
- FIELD, GEORGE H. Notes on the larvæ of *Datana robusta* Streecker. 15: 54-56. 1907.
- FISHER, ELIZABETH. New North American fungus gnats (Mycetophilidæ). 45: 387-401. 1937.
- FORBES, JAMES. Observations on the internal anatomy of the carpenter ant. 49: 294-295. 1941.
- FORBES, WILLIAM T. M. New England caterpillars; No. 1. 15: 56. 1907.
- . New England caterpillars, No. 2. *Eubaphe nigricans* Reakirt. 18: 163-164. 1910.
- . Male of *Heliocheilus lupatus*. 20: 193-194. 1912.
- . An artificial table of the species of *Hadena*, etc., of eastern North America, north of the Carolinas. 21: 179-186. 1913.
- . A table of the genera of Noctuidæ of northeastern North America. 22: 1-33. 1914.
- . Slides of wings of Macrolepidoptera. 23: 69. 1915.
- . On certain caterpillar homologies. 24: 137-142. 1916.
- . The genera of Hydrimeninæ of the United States (Lepidoptera). 25: 44-67. 1917.
- . Guenée's Herminidæ revived. 26: 224-225. 1918.
- . *Anacamptis innocuella*. 26: 228. 1918.
- . Notes on the Crambinae (Lepidoptera). 28: 214-227. 1920.
- . The position of the Dioptidæ (Lepidoptera). 30: 71-72. 1922.
- . Stridulation in another family of Lepidoptera. 30: 72. 1922.
- . *Haploa* and *Callimorpha* (Lepidoptera). 30: 72. 1922.
- . The genus *Mechanitis* Fabr. (Lepidoptera, Ithomiinæ). 32: 146-158. 1924.
- . Two minor pests from Europe (Lepidoptera, Plutellidæ). 32: 173. 1924.
- . The wing folding patterns of the Coleoptera. 34: 42-68; 91-139. 1926.
- . Book review. Ueber Chinas Pyraliden, Tortriciden, Tineiden. . . . By Aristide Caradja. 34: 283-284. 1926.
- . The relationships of some aberrant pyralids (Lepidoptera). 34: 311-339. 1926.
- . The genus *Melinæa* Hübner, with a description of new species, (Lepidoptera, Ithomiinæ). 35: 23-39. 1927.
- . A new *Teriocolias* (Lepidoptera, Pieridæ) from the Andes. 36: 81-82. 1928.
- . Variation in *Junonia lavinia* (Lepidoptera, Nymphalidæ). 36: 305-321. 1928.
- . A new *Mechanitis* (Lepidoptera, Nymphalidæ). 38: 317-318. 1930.
- . Notes on the Dioptidæ (Lepidoptera). 39: 69-76. 1931.
- . The Rubidella group of *Aristotelia* (Lepidoptera, Gelechiidæ). 40: 423-433. 1932.

- . The *Cirphis pseudargyria* complex (Lepidoptera: Noctuidæ). 44: 239-247. 1936.
- . A new "silver-marked" *Eucosma* (Lepidoptera-Olethreutinae). 45: 131-132. 1937.
- . *Acentropus* in America (Lepidoptera, Pyralididæ). 46: 338. 1938.
- . A new *Trichotaphe* from New York (Lepidoptera: Gelechiidæ). 47: 159-161. 1939.
- . The position of *Utetheisa galapagensis* (Lepidoptera, Arctiidæ). 49: 101-110. 1941.
- . On borderline *Dircenna* (Lepidoptera, Ithomiinae). 50: 37-44. 1942.
- . The wing of *Mastogenius* (Coleoptera). 50: 193-194. 1942.
- FOX, HENRY. Seasonal trends in the relative abundance of Japanese beetle populations in the soil during the annual life cycle. 45: 115-126. 1937.
- . The probable future distribution of the Japanese beetle in North America. 47: 105-123. 1939.
- . See LUDWIG, DANIEL. 1941.
- FOX, WILLIAM J. New North American aculeate Hymenoptera. 1: 53-56. 1893.
- . Synopsis of the species of *Nysson* inhabiting America, north of Mexico. 4: 10-16. 1896.
- . Two new Bembicine wasps. 9: 83-84. 1901.
- FROST, C. A. A new species of *Chrysobothris* (Coleoptera) from Maine. 18: 43-45. 1910.
- FROST, S. W. Biological notes on *Ceutorhynchus marginatus* Paykull (Coleoptera). 24: 243-252. 1916.
- . Frogs as insect collectors. 32: 174-185. 1924.
- FRY, HENRY J. Grasshopper culture in the laboratory. 35: 41-50. 1927.
- FULLAWAY, DAVID T. Gall-fly parasites from California. 20: 274-282. 1912.
- FUNKHOUSER, W. D. New Membracidae from the East Indies. 22: 234-239. 1914.
- . Report on a collection of Membracidae from the Colombian Andes, taken by Mr. John Thomas Lloyd. 22: 275-281. 1914.
- . New neotropical Membracidae. 27: 267-277. 1919.
- . New records and species of South American Membracidae. 30: 1-35. 1922.
- . New Membracidae collected by the Cornell South American Expedition. 35: 159-165. 1927.
- . New genera and species of neotropical Membracidae. 38: 405-421. 1930.
- . A new African membracid. 42: 339-341. 1934.
- . New Membracidae in the Imperial Institute collection. 43: 427-435. 1935.
- . New Peruvian Membracidae (Homoptera). 48: 275-293. 1940.
- . Six new Chinese Membracidae. 50: 61-67. 1942.

- GAINES, J. C. Notes on Coccinellidæ with a description of a new subspecies (Coleoptera). **41**: 263-264. 1933.
- GARMAN, PHILIP. A new genus and species of Trombidiinæ (Acarina). **33**: 85-86. 1925.
- GAUL, ALBRO TILTON. A note on rearing the brood of *Polistes fuscatus* Fabricius (Hymenoptera, Vespidae). **48**: 391-393. 1940.
- . Experiments on the taste sensitivity of *Dolichovespula arenaria* Fab. (Hymenoptera, Vespidae). **49**: 367-369. 1941.
- GERTSCH, WILLIS J. The poisonous nature of spiders. **41**: 402. 1933.
- . A comparison of the burrowing wolf spiders and burrowing tarantulas. **49**: 112. 1941.
- GIBSON, EDMUND H., AND EMMA WELLS. The genus *Ophiderma* Fairm. (Membracidae; Homoptera). **25**: 199-203. 1917.
- GINSBURG, JOSEPH M., AND CLAYTON KENT. The effect of soap sprays on plants. **45**: 109-113. 1937.
- GIRAULT, A. ARSÈNE. Notes on *Trichogramma pretiosa* (Hymenoptera). Riley. **15**: 57-60. 1907.
- . *Trichogramma pretiosa* Riley. Miscellaneous habits of the adult, with a list of hosts. **15**: 117-120. 1907.
- . Biological notes on *Megilla maculata* DeGeer. **15**: 193-197. 1907.
- . Length of the life-cycle of *Pseudopyrellia cornicina* Fabricius for a single generation, with record of a parasite. **16**: 15-16. 1908.
- . A new Chalcidoid genus and species of the family Mymaridæ from Illinois, parasitic on the eggs of the weevil *Tyloderma foveolatum* (Say). **17**: 167-171. 1909.
- . Synonymic and descriptive notes on the Chalcidoid family Mymaridæ. **18**: 233-259. 1910.
- . Descriptions of three new North American species of the mymarid genus *Polynema* Haliday parasitic on membracid eggs, with a list of the species described since the year 1898. **19**: 12-23. 1911.
- . The occurrence of the mymarid genus *Mymar* Halida in North America. **19**: 92-96. 1911.
- . Notes on the Hymenoptera Chalcidoidea, with descriptions of several new genera and species. **19**: 175-189. 1911.
- . The occurrence of the mymarid genus *Stephanodes* Enock in North America. **20**: 40-44. 1912.
- . New genera of Chalcidoid Hymenoptera. **23**: 165-173. 1915.
- . Two new species of *Arrhenophagus* with remarks. **23**: 241-242. 1915.
- . A remarkable new genus of Encyrtidæ from the West Indies, bearing two ring-joints. **24**: 232-233. 1916.
- GLASER, R. W. The aerobic nature of insect tissue. **26**: 1-3. 1918.
- , AND C. C. FARRELL. Field experiments with the Japanese beetle and its nematode parasite. **43**: 345-371. 1935.
- GOOD, HENRY G. Notes on the life history of *Prionocyphon limbatus* Lee. (Helodidae, Coleoptera). **32**: 79-84. 1924.

- GODING, FREDERIC W. Synonymy of Buckton's Australian Membracidae. 34: 207-208. 1926.
- . New Membracidae, I. 34: 243-256. 1926.
- . New Membracidae, II. 34: 279-281. 1926.
- . Classification of the Membracidae of America. 34: 295-317. 1926.
- . New Membracidae, III. 35: 167-170. 1927.
- . Revision of the Membracidae of South America and Antilles. 35: 183-191. 1927.
- . The Membracidae of South America and the Antilles, II. Subfamily Centrotinae. 35: 391-409. 1927.
- . New Membracidae, IV. 36: 37-41. 1928.
- . New Membracidae, V. 36: 43-45. 1928.
- . Membracidae of South America and Antilles, III. Subfamily Membracidae. 36: 201-234. 1928.
- . Notes on some South American Membracidae. 37: 7-9. 1929.
- . New Membracidae, VI. 37: 11-12. 1929.
- . New Membracidae, VIII. 37: 167-170. 1929.
- . New Membracidae, IX. 37: 171-174. 1929.
- . Synonymical notes on Membracidae. 38: 39-42. 1930.
- . An injurious membracid. 38: 47. 1930.
- . New Membracidae, X. 38: 89-92. 1930.
- . Classification of the old world Membracidae. 39: 299-313. 1931.
- . The Membracidae of Africa. 40: 205-239. 1932.
- . The old world Membracidae. 42: 451-480. 1934.
- . Old world Membracidae. 47: 315-349. 1939.
- GRIFFITHS, JAMES T., AND OSCAR E. TAUBER. The nymphal development for the roach *Periplaneta americana* L. 50: 263-272. 1942.
- GRINNELL, FORDYCE, JR. See GRINNELL, JOSEPH. 15: 37-49. 1907.
- GRINNELL, JOSEPH, AND FORDYCE GRINNELL, JR. The butterflies of the San Bernardino Mountains, California. 15: 37-49. 1907.
- GROSSBECK, JOHN A. Notice from the Newark Entomological Society. 15: 248-249. 1907.
- . New moths of the family Geometridae. 16: 19-31. 1908.
- . New species and one new genus of Geometridae. 18: 199-207. 1910.
- . *Utetheisa bella* var. *nova*. 19: 196-198. 1911.
- . A contribution toward the life history of *Emphor bombiformis* Cress. 19: 238-244. 1911.
- . Migration of *Alabama argillacea* Hübner. 19: 259-260. 1911.
- . Habits of *Cerceris fumipennis* Say. 20: 135. 1912.
- . Book notice. Genera Insectorum, diriges par. P. Wytsman, Lepidoptera, Heterocera. Family Geometridae. By Louis P. Prout. 20: 195-197. 1912.
- . Miscellaneous notes and descriptions of North American Geometridae. 20: 282-292. 1912.

- . The relation of mosquitoes to their environment. 21: 55-61. 1913.
- GROTE, A. RADCLIFFE. Note on the Smerinthinae. 3: 132-133. 1895.
- . Final note on the Platypterygidae. 3: 166-167. 1895.
- . Schrank's genera. 3: 168-175. 1895.
- . Note on geographical distribution and mimicry of *Apatela*. 4: 81-85. 1896.
- . Correction of the type of *Agronoma* and note on *Laspeyria*. 4: 85-86. 1896.
- . Note on *Samia californica*. 4: 201. 1896.
- . The correct title: *Noropsis elegans* Hubn. 5: 31-39. 1897.
- . The classification of the Saturniides. 5: 44-48. 1897.
- . An attempt to classify the Holarctic Lepidoptera by means of the specialization of the wings. 5: 151-160. 1897.
- . An attempt to classify the Holarctic Lepidoptera from the specialization of the wings. 6: 9-26. 1898.
- . Reply to Dr. Dyar's note. 6: 60. 1898.
- GROTH, CHRISTIAN F. Otto Seifert. 19: 63. 1911.
- GURNEY, ASHLEY BUELL. The external morphology and phylogentic position of the woodland cane cricket (*Ceuthophilus brevipes* Seudder: Orthoptera: Tettigoniidae). 44: 281-315. 1936.
- HABERMAN, SOL. See CUMLEY, RUSSELL W. 46: 401-415. 1938.
- , AND RUSSELL W. CUMLEY. Serological investigation of *Drosophila* antigens using the precipitation reaction. 47: 219-226. 1939.
- HADJINICOLAOU, JOHN. Effect of certain radio waves on insects affecting certain stored products. 39: 145-150. 1931.
- HADLEY, C. H. Progress of Japanese beetle investigations. 46: 203-216. 1938.
- HAGAN, H. R. Viviparity in insects. 43: 251. 1935.
- HALL, GAYLORD C. Distribution of *Argynnis atlantis* and *aphrodite*. 21: 162. 1913.
- . *Limenitis ursula* var. *albo fasciata*. 24: 93. 1916.
- . *Aglais j-album* Boisduval and Leconte. 29: 57. 1921.
- . Notes on *Polygonia j-album*, *Cercyonis alope*, *Phyciodes tharos*, *Heodes epixanthe* and *Euphydryas gilletti*. 32: 109-111. 1924.
- HALLINAN, THOMAS. General notes on the Lepidoptera of the Canal Zone, Isthmus of Panama. 28: 238-239. 1920.
- HALLOCK, HAROLD C. Movements of larvæ of the Oriental beetle through the soil. 43: 413-425. 1935.
- . Recent developments in the use of electric light traps to catch the Asiatic garden beetle. 44: 261-279. 1936.
- . The Sarcophaginae and their relatives in New York, Part I. 48: 127-153. 1940.
- . The Sarcophaginae and their relatives in New York, Part II. 48: 201-231. 1940.
- . The Sarcophaginae and their relatives in New York, Part II. 50: 215-241. 1942.

- HARRIOT, SAMUEL C. Notes on the genus *Scioptera* Kirby (Otitidæ, Diptera). 50: 195-197. 1942.
- . A new genus and a new species of Otitidæ from North America (Diptera). 50: 249-250. 1942.
- HARRIS, EDWARD DOUBLEDAY. Cicindelidæ of Mt. Desert, Maine. 9: 27-28. 1901.
- . Three new cicindelids. 21: 67-69. 1913.
- . *Cicindela longilabris* Say. 21: 311. 1913.
- HARRIS, J. ARTHUR. On differential incidence of the beetle *Bruchus*. 23: 242-253. 1915.
- HART, RICHARD C. See BISHOP, SHERMAN C. 39: 151-157. 1931.
- HASKINS, CARYL PARKER. Notes on the behavior and habits of *Stigmatomma pallipes* Haldeman. 36: 179-184. 1928.
- . Note on an imitation of the deportation habit in *Polyergus lucidus* Mayr. 37: 65-66. 1929.
- . Preliminary notes on certain phases of the behavior and habits of *Proceratium croceum* Roger. 38: 121-126. 1930.
- . Notes on the biology and social life of *Euponera gilva* Roger var. *harnedi* M. R. Smith. 39: 507-521. 1931.
- . Preliminary note of morphological variations occurring in X-rayed stock of the Attacine moth *Callosamia promethea* Dru. 42: 145-154. 1934.
- , AND E. V. ENZMANN. On a characteristic somatic modification induced by adverse environmental conditions in *Drosophila*. 46: 453-455. 1938.
- . Note on the method of colony foundation of the Ponerine ant *Bothroponera soror* Emery. 49: 211-216. 1941.
- HATCH, MELVILLE H., AND JOHN W. ANGELL. A new North American *Necrophorus*. 33: 216. 1925.
- HATCH, MELVILLE H. Habitats of Coleoptera. 33: 217-223. 1925.
- . *Anchomenus decorus* ab. *syracusensis* Nov. 34: 247-248. 1926.
- . Notes on the morphology of the eyes of Coleoptera. 34: 343-349. 1926.
- . A systematic index to the keys for the determination of the nearctic Coleoptera. 35: 279-306. 1927.
- . Studies on the Silphinae. 35: 331-371. 1927.
- . *Brachypterolus pulicarius* (L.) in America (Nitidulidæ). 36: 35-36. 1928.
- . A geographical index of the catalogues and local lists of nearctic Coleoptera. 36: 335-354. 1928.
- . The genera and subgenera of Leiodidæ and Clambidæ. 37: 1-9. 1929.
- . A supplement to the indices to the keys to and local lists of nearctic Coleoptera. 37: 135-143. 1929.
- . Book notice. A Manual of the Genera of Beetles of America, north of Mexico. By J. Chester Bradley. 39: 261-262. 1931.

- . "Necrophorus" or "Nicrophorus." 40: 391. 1932.
- . Studies on the Leptodiridæ (Catopidæ) with descriptions of new species. 41: 187-229. 1933.
- . See EXLINE, HARRIET. 42: 449-450. 1934.
- . Studies on Leiodidæ. 44: 33-41. 1936.
- . See PRATT, ROBERT Y. 46: 191-193. 1938.
- . Theophrastus of Eresos as an economic entomologist. 46: 223-227. 1938.
- . Observations on Silphinae with a note on intraspecific variation and their designation. 48: 233-244. 1940.
- . A second supplement to the indices to the keys and local lists of nearctic Coleoptera. 49: 21-42. 1941.
- HAWLEY, I. M., AND G. F. WHITE. Preliminary studies on the diseases of larvæ of the Japanese beetle (*Popillia japonica* Newm.). 43: 405-412. 1935.
- , AND T. N. DOBBINS. Mortality among hibernating larvæ of the Japanese beetle with special reference to conditions in the winter of 1935-36. 49: 47-56. 1941.
- HAYHURST, PAUL. Observations on two species of *Hyalopterus* (Aphididæ). 17: 107-115. 1909.
- HAYWARD, ROLAND. Preliminary hand-book of the Coleoptera of North-eastern America. 5: 133-149. 1897.
- HEADLEE, THOMAS J. Some data relative to the relationship of temperature to codling moth activity. 36: 147-163. 1928.
- . An apparatus for the study of comparative effects of constant versus variable temperature on the speed of insect metabolism. 37: 25-29. 1929.
- , AND ROBERT C. BURDETTE. Some facts relative to the effect of high frequency radio waves on insect activity. 37: 59-64. 1929.
- HEBARD, MORGAN. See REHN, JAMES A. G. 22: 89-96. 1914.
- . The American species of the genus *Miogryllus* (Orthoptera, Grillidæ). 23: 101-121. 1915.
- . A study of the species of the genus *Stenopelmatus* found in the United States. 24: 70-86. 1916.
- HEFFRON, HAZEL M. See BROWN, F. MARTIN. 36: 165-168. 1928.
- HEIDEMANN, OTTO. A list of capsids from the state of New York, with the description of a new species. 13: 48-50. 1905.
- HERRICK, GLENN W. Notes on the life-history and habits of *Oncideres texana*. 10: 15-19. 1902.
- HOFFMAN, CLARENCE H. The life-history of *Serica sericea* (Ill.) (Scarabæidæ-Coleoptera). 44: 11-15. 1936.
- HOLLAND, W. J. Four new genera and species of West African Sesiidæ. 1: 181-184. 1893.
- . Notes on Lepidoptera. 6: 57-59. 1898.
- HOLLOWAY, J. K. Temperature as a factor in the activity and development of the Chinese strain of *Tiphia popilliavora* (Rohw.) in New Jersey and Pennsylvania. 39: 555-565. 1931.

- HOLTZ, MARTIN. Two new localities for *Parnassius apollo* in Asia Minor. 38: 468. 1930.
- HOOD, J. DOUGLAS, AND C. B. WILLIAMS. New Thysanoptera from Florida and Louisiana. 23: 121-138. 1915.
- HOOD, J. DOUGLAS. New Thysanoptera from the United States. 35: 123-145. 1927.
- . New Thysanoptera from Panama. 41: 407-434. 1933.
- . Eleven new Thripidae (Thysanoptera) from Panama. 43: 143-171. 1935.
- . Nine new Thysanoptera from the United States. 44: 81-100. 1936.
- HORN, WALTHER. List of the Cicindelidae of Mexico and on their relationship with the species of the United States. 11: 213-221. 1903.
- HUBBELL, T. H. The distribution of the beach grasshoppers *Trimerotropis huroniana* and *Trimerotropis maritima* interior in the Great Lakes region (Orthoptera: Acrididae). 37: 31-39. 1929.
- HUCKETT, H. C. The North American species of the genus *Limnophora* Robineau-Desvoidy, with descriptions of new species (Muscidae, Diptera). 40: 25-76; 105-158; 279-339. 1932.
- . A revision of connectant forms between Cænosian and Limnophorine genera occurring in North America (Diptera, Muscidae). 44: 187-223. 1936.
- . The North American species of the genera *Leucophora* Robineau-Desvoidy and *Proboscimyia* (Muscidae, Diptera). 48: 335-365. 1940.
- HUGHES-SCHRADER, SALLY. Studies on the biology of primitive coccids. 49: 116. 1941.
- HULST, GEORGE D. New species of Lepidoptera. 8: 215-225. 1900.
- HUNGERFORD, H. B. Food habits of corixids. 25: 1-5. 1917.
- . Life history of a boatman. 25: 112-122. 1917.
- . Notes on the oviposition of some semi-aquatic Hemiptera (*Hebrus*, *Salda*, *Lamprocanthia*). 26: 12-18. 1918.
- HUSSEY, ROLAND F. Some new or little-known Hemiptera from Florida and Georgia. 33: 61-69. 1925.
- HUTTON, SIDNEY B. See BECKWITH, CHARLES S. 37: 425-427. 1929.
- JACOT, ARTHUR PAUL. The Galumnas (Oribatoidea; Acarina) of the north-eastern United States. 42: 87-125. 1934.
- . An intertidal moss mite in America. 42: 329-337. 1934.
- . The species of *Zetes* (Oribatoidea; Acarina) of the northeastern United States. 43: 51-95. 1935.
- . *Fuscozetes* (Oribatoidea-Acarina) in the northeastern United States. 43: 311-319. 1935.
- . Some rake-legged mites of the family Cheyletidae. 44: 17-31. 1936.
- . Principles of scientific publication. 45: 127-130. 1937.
- . Journal of North American moss-mites. 45: 353-375. 1937.
- . More box-mites of the northeastern United States. 46: 109-145. 1938.

- JAMES, MAURICE T. New and little-known Colorado Diptera. 40: 435-438. 1932.
- . New species and records of Colorado Diptera. 44: 341-344. 1936.
- JOHANNSEN, O. A. Stratiomyiid larvæ and puparia of the northeastern United States. 30: 141-153. 1922.
- . Notes on the synonymy of some New York State Chironomidæ. 34: 273-277. 1926.
- . New species of North American Ceratopogonidæ and Chironomidæ. 42: 343-352. 1934.
- JOHNSON, FRANK HOLMES. Eastern varieties of *Cicindela scutellaris*. 2: 142-143. 1894.
- JOHNSON, FRANK, AND WILLIAM PHILLIPS COMSTOCK. *Anæa* of the Antilles and their continental relationship, with descriptions of new species, subspecies and forms (Lepidoptera, Rhopalocera, Nymphalidæ). 49: 301-343. 1941.
- JOHNSON, H. HERBERT. Polyembryony. 42: 143. 1934.
- JONES, PAUL R. A preliminary list of Nebraska Syrphidæ with descriptions of new species (Diptera). 15: 87-100. 1907.
- JOUTEL, LOUIS H. Some notes on the ravages of the white ant (*Termes flavipes*). 1: 89-90. 1893.
- . Proceedings of the New York Entomological Society. 3: 93-96. 1895.
- . Proceedings of the New York Entomological Society. 3: 144. 1895.
- . Proceedings of the New York Entomological Society. 4: 50. 1896.
- . Proceedings of the New York Entomological Society. 4: 95-98. 1896.
- . Proceedings of the New York Entomological Society. 4: 207-208. 1896.
- . Proceedings of the New York Entomological Society. 5: 97-102. 1897.
- . Proceedings of the New York Entomological Society. 5: 205-208. 1897.
- . Proceedings of the New York Entomological Society. 6: 199-200. 1898.
- . Proceedings of the New York Entomological Society. 6: 251-256. 1898.
- . Note on *Sesia sigmoidea*. 9: 190. 1901.
- . Larva of *Isochates beutenmülleri* on Staten Island, N. Y. 9: 190. 1901.
- . A self-decorating geometrid larva. 9: 191. 1901.
- . *Philosamia cynthia* and *Callosamia promethia* crosses. 15: 101-103. 1907.
- . *Phymatodes lengi* Joutel. 19: 200. 1911.

- KASTON, BENJAMIN JULIAN. Notes on Dipterous parasites of spiders. 45: 415-420. 1937.
- . Mantispidæ parasitic on spider egg sacs. 46: 147-153. 1938.
- KEARFOTT, W. D. A revision of the North American species of the genus *Choreutis*. 10: 106-125. 1902.
- . Descriptions of new Tineoidea. 11: 145-165. 1903.
- . New North American Tortricidæ and Tineina. 16: 167-188. 1908.
- KELLOGG, VERNON L., AND B. L. CHAPMAN. Mallophaga from birds of the Pacific Coast of North America. 10: 20-28. 1902.
- AND ———. Mallophaga from birds of the Hawaiian Islands. 10: 155-169. 1902.
- KELLOGG, VERNON L. Mallophaga from Argentina. 14: 45-49. 1906.
- KENT, CLAYTON. See GINSBURG, JOSEPH M. 45: 109-113. 1937.
- KESSEL, QUINTA CATTELL. A synopsis of the Streblidæ of the world. 33: 11-33. 1925.
- KING, ROBERT L. See SLIFER, ELEANOR H. 44: 345-348. 1936.
- KLOTS, ALEXANDER B. A revision of the genus *Eurema* (Lep. Pieridæ). Part I. New World species, morphology and phylogeny. 36: 61-79. 1928.
- . A phylogenetic study of the genus *Teriocolias* Roerber (Lepidoptera, Pieridæ). 36: 113-117. 1928.
- . Notes and additions for 1928 to the New York state list (Lepidoptera). 37: 41-42. 1929.
- . New records of Microlepidoptera from New York. 39: 291-293. 1931.
- . New records of Lepidoptera from New York. 40: 385-387. 1932.
- . On the life-history of *Pieris virginiensis* Edwards (Lep., Pieridæ). 43: 139-142. 1935.
- . Viviparity in insects. 44: 79-80. 1936.
- . Some notes on *Colias* and *Brenthis* (Lepidoptera, Pieridæ and Nymphalidæ). 45: 311-333. 1937.
- . Lepidoptera-geography in the Rocky Mountains. 45: 410-411. 1937.
- . Book notice. A Catalogue of the Original Descriptions of Rhopalocera Found North of the Mexican Border. Ed. by F. Martin Brown. 46: 416. 1938.
- . Book notice. A Catalogue of the Original Descriptions of the Rhopalocera Found North of the Mexican Border. . . . By Cyril F. dos Passos. 47: 162. 1939.
- . A new *Brenthis* from Alaska (Lepidoptera, Nymphalidæ). 48: 413-414. 1940.
- KNAB, FREDERICK. The epistomal appendages of mosquito larvæ. 12: 175-177. 1904.
- . The eggs of *Culex territans* Walker. 12: 246-248. 1904.

- . A chironomid inhabitant of *Sarracenia purpurea*, *Metriocemus knabi* Coq. 13: 69-73. 1905.
- . Goeldi's "Os Mosquitos No Para" (Diptera). 14: 57-76. 1906.
- . See DYAR, HARRISON G. 15: 9-13. 1907.
- . An early account of the copulation of *Stegomyia calopus*. 15: 13-18. 1907.
- . See DYAR, HARRISON G. 15: 100-101. 1907.
- . A new genus and species of sabethid mosquito. 15: 120-121. 1907.
- . *Deinocerites* again. 15: 121-123. 1907.
- . Notes on *Leptinotarsa undecimlineata* Stål. 15: 190-193. 1907.
- . See DYAR, HARRISON G. 15: 197-212. 1907.
- . See DYAR, HARRISON G. 15: 213-214. 1907.
- . Mosquitoes as flower visitors. 15: 215-219. 1907.
- . Diptera at home on spiders' webs. 20: 143-146. 1912.
- KNAUS, W. Notes on Coleoptera. 17: 71-73. 1909.
- . Notes on a rare *Buprestis*. 30: 66-68. 1922.
- . Two new forms of *Cicindela* with remarks on other forms. 30: 194-197. 1922.
- . 1923 collection and life-history notes on *Strategus mormon*. 32: 124-125. 1924.
- . A color form of *Cicindela repanda-unijuncta*. 32: 126. 1924.
- . 1923 collecting notes. 32: 170-173. 1924.
- KNIGHT, HARRY H. Synoptic key to the subfamilies of Miridæ (Hemiptera-Heteroptera). 26: 40-44. 1918.
- . Key to the species of *Oncerometopus* with descriptions of five new species (Hemiptera, Miridæ). 36: 189-194. 1928.
- KNOWLTON, G. F., AND C. F. SMITH. The aphid genus *Pseudæpameibaphis*. 46: 217-222. 1938.
- KRAFKA, JOSEPH, JR. Morphology of the head of trichopterous larvæ as a basis for the revision of the family relationship. 31: 31-52. 1923.
- KUNZE, RICHARD E. Life-history of two forms of *Cerura nivea*. 6: 188-195. 1898.
- . Notes on ova and larva of *Hyperchiria pamina*. 8: 201-205. 1900.
- . Descriptions of two lepidopterous larvæ. 14: 131-134. 1906.
- KUWANA, S. I. Coccidæ from the Galapagos Islands. 10: 28-33. 1902.
- . Coccidæ of Japan (III). First supplemental list of Japanese Coccidæ, or scale insects, with description of eight new species. 17: 150-164. 1909.
- LAFLEUR, LAURENCE J. Communal disaffection in ants. 49: 199-204. 1941.
- . Civil disturbances in ant communities. 49: 225-231. 1941.
- LANDER, BENJAMIN. Domed burrows of *Cicada septendecim*. 3: 33-38. 1895.
- . Note on the seventeen-year cicada. 7: 212-214. 1899.

- LEARNED, E. T. An occurrence of spiral segmentation in *Apantesis nais* (Lep., Arct.). 40: 167-181. 1932.
- LEHMAN, RUSSELL S. Some observations on the life-history of the tomato psyllid (*Paratrioza cockerelli* Sule.) Homoptera. 38: 307-312. 1930.
- LEIBY, R. W. Biology of the goldenrod gallmaker *Gnorimoschema gallae-solidaginis* Riley. 30: 81-94. 1922.
- LENG, CHARLES W., AND WILLIAM BEUTENMULLER. List of the Coleoptera of North Eastern America, with special reference to the fauna of New York City and vicinity. 1: 91-96; 134-146; 185-194. 1893.
- AND ———. List of the Coleoptera of North Eastern America with special reference to the fauna of New York City and vicinity. 2: 42-48. 1894.
- . Note on *Psephenus lecontei* Lec. 2: 86. 1894.
- . Notes on *Bryaxis abdominalis* Aubé. 2: 143. 1894.
- , AND WILLIAM BEUTENMULLER. Preliminary hand-book of the Coleoptera of North Eastern America. 2: 87-96; 133-141; 175-190. 1894.
- AND ———. Preliminary hand-book of the Coleoptera of North Eastern America. 3: 73-76. 1895.
- . Notes on Cicindelidæ of Louisiana. 10: 131-136. 1902.
- . Notes on the Cicindelidæ of the Pine Barrens of New Jersey. 10: 236-240. 1902.
- . Notes on Coccinellidæ. 11: 35-45. 1903.
- . Notes on Coccinellidæ. II. 11: 193-213. 1903.
- . Notes on Coccinellidæ. III. 16: 33-44. 1908.
- . A new *Clerus*. 17: 103-104. 1909.
- . Notes on Coleoptera collected in northern Georgia. 18: 71-82. 1910.
- . Annual address of the president. 19: 1-6. 1911.
- . Notes on Coccinellidæ. IV. 19: 6-10. 1911.
- . A new species of *Dineutes*. 19: 11. 1911.
- . Notes on Coleoptera collected in northern Georgia. II. 19: 209-216. 1911.
- . *Deltometopus amænicornis* with ants in beech stump. 19: 261. 1911.
- . The geographical distribution of Cicindelidæ in Eastern North America. 20: 1-17. 1912.
- . *Exochomus scapularis*. 20: 68. 1912.
- . See DAVIS, WILLIAM T. 20: 119-121. 1912.
- . *Soronia decumana* Er., in Alabama. 20: 134. 1912.
- . Larva of *Brachys* in oak leaf. 20: 193. 1912.
- . Proceedings of the New York Entomological Society. 20: 208-223. 1912.
- . Proceedings of the New York Entomological Society. 20: 300-306. 1912.
- . Aquatic Coleoptera. 21: 32-42. 1913.

- . Proceedings of the New York Entomological Society. 21: 72-90. 1913.
- . Note on *Phanæus torrens* Lec. 21: 157-158. 1913.
- . *Dytiscus* flying in January. 21: 160. 1913.
- . Proceedings of the New York Entomological Society. 21: 163-175. 1913.
- . Proceedings of the New York Entomological Society. 21: 275-282. 1913.
- . *Chlænium leucoscelis*. 21: 311. 1913.
- . *Lophoglossus*. 21: 311. 1913.
- . *Cicindela blanda* Dej. 21: 312. 1913.
- . *Ceutorrhynchus hamiltoni* Dietz. 21: 312. 1913.
- . *Ochthebius attritus*. 21: 312. 1913.
- . Proceedings of the New York Entomological Society. 21: 313-318. 1913.
- . Proceedings of the New York Entomological Society. 22: 75-83. 1914.
- . Proceedings of the New York Entomological Society. 22: 83-88. 1914.
- . Notes on the species of *Scaphinotus* Dejean inhabiting north-eastern America with description of a new species. 22: 139-144. 1914.
- . Coleoptera found with lepidopterous borers. 22: 172. 1914.
- . Proceedings of the New York Entomological Society. 22: 176-183. 1914.
- . Proceedings of the New York Entomological Society. 22: 266-269. 1914.
- . A new species of *Arthromacra* with notes on other species of Lagriidæ. 22: 285-290. 1914.
- . *Balaninus quercus* Horn. 22: 332. 1914.
- . Proceedings of the New York Entomological Society. 22: 333-340. 1914.
- , AND ERNEST SHOEMAKER. A new genus and species of Lampyridæ. 23: 55-56. 1915.
- . Proceedings of the New York Entomological Society. 23: 71-83. 1915.
- . Proceedings of the New York Entomological Society. 23: 154-159. 1915.
- . Local species of *Dermestes*. 23: 197. 1915.
- . Proceedings of the New York Entomological Society. 23: 198-200. 1915.
- . *Coccinella transversoguttata*, *Trichodes nuttalli* and *Malachius æneus*. 23: 254. 1915.
- . Notes on Cychrini. 24: 39-42. 1916.
- . Florida Carabidæ. 24: 92. 1916.
- . Snout beetles on holly bloom. 24: 92. 1916.
- . Proceedings of the New York Entomological Society. 24: 94-106. 1916.

- . Notes on Alleculidæ (Coleoptera). 24: 142-143. 1916.
- . Proceedings of the New York Entomological Society. 24: 157-169. 1916.
- . Proceedings of the New York Entomological Society. 24: 237-238. 1916.
- . Proceedings of the New York Entomological Society. 24: 307-314. 1916.
- . A new variety of *Scaphinotus*. 25: 34-36. 1917.
- . *Cardiola obscura* Grav., on Staten Island. 25: 80-81. 1917.
- . Proceedings of the New York Entomological Society. 25: 85-92. 1917.
- . *Syncalyptra spinosa* in North America. 25: 128-129. 1917.
- . Proceedings of the New York Entomological Society. 25: 135-147. 1917.
- . Proceedings of the New York Entomological Society. 25: 240-245. 1917.
- . *Microclytus*—a correction. 26: 8-10. 1918.
- . Description of a new species of *Piezocorynus*. 26: 11-12. 1918.
- . Cicindelidæ of Chile. 26: 110. 1918.
- . Proceedings of the New York Entomological Society. 26: 113-127. 1918.
- . History of the New York Entomological Society. 26: 129-133. 1918.
- . A new race of *Cicindela* with notes on other races and species. 26: 138-141. 1918.
- . Notes on some changes in the list of Coleoptera. 26: 201-211. 1918.
- . Proceedings of the New York Entomological Society. 26: 229-240. 1918.
- . Proceedings of the New York Entomological Society. 27: 109-115. 1919.
- . Edward Doubleday Harris. 27: 237-240. 1919.
- . Proceedings of the New York Entomological Society. 27: 242-248. 1919.
- . Proceedings of the New York Entomological Society. 27: 344-349. 1919.
- . Proceedings of the New York Entomological Society. 28: 90-93. 1920.
- . Proceedings of the New York Entomological Society. 28: 194-195. 1920.
- . Proceedings of the New York Entomological Society. 28: 241-246. 1920.
- . Proceedings of the New York Entomological Society. 29: 58-61. 1921.
- . Proceedings of the New York Entomological Society. 29: 119-121. 1921.

- . Proceedings of the New York Entomological Society. 29: 181-184. 1921.
- . Proceedings of the New York Entomological Society. 30: 74-80. 1922.
- . Proceedings of the New York Entomological Society. 30: 107-111. 1922.
- . Proceedings of the New York Entomological Society. 30: 136-139. 1922.
- . Proceedings of the New York Entomological Society. 30: 198-206. 1922.
- . Proceedings of the New York Entomological Society. 31: 55-58. 1923.
- . Proceedings of the New York Entomological Society. 31: 116-118. 1923.
- . Proceedings of the New York Entomological Society. 31: 158-161. 1923.
- . New species and synopsis of *Statira*. 31: 184-188. 1923.
- . Proceedings of the New York Entomological Society. 31: 190-195. 1923.
- . Proceedings of the New York Entomological Society. 32: 75-77. 1924.
- . Proceedings of the New York Entomological Society. 32: 115-177. 1924.
- . Proceedings of the New York Entomological Society. 32: 159-162. 1924.
- . Gustav Beyer. 32: 165-166. 1924.
- . Proceedings of the New York Entomological Society. 32: 216-219. 1924.
- . Proceedings of the New York Entomological Society. 33: 57-59. 1925.
- . Proceedings of the New York Entomological Society. 33: 116-120. 1925.
- . Proceedings of the New York Entomological Society. 33: 190-194. 1925.
- . Proceedings of the New York Entomological Society. 33: 243-245. 1925.
- . Proceedings of the New York Entomological Society. 34: 86-89. 1926.
- . Proceedings of the New York Entomological Society. 34: 219-221. 1926.
- . *Orthopterus scutellaris*. 34: 285-286. 1926.
- . The resting place of some collections. 34: 286-287. 1926.
- . Proceedings of the New York Entomological Society. 34: 289-292. 1926.
- . Proceedings of the New York Entomological Society. 34: 367-371. 1926.

- . Proceedings of the New York Entomological Society. 35: 101–108. 1927.
- . Proceedings of the New York Entomological Society. 35: 213–217. 1927.
- . Proceedings of the New York Entomological Society. 35: 309–317. 1927.
- . Proceedings of the New York Entomological Society. 35: 419–426. 1927.
- . Proceedings of the New York Entomological Society. 36: 105–111. 1928.
- . Proceedings of the New York Entomological Society. 36: 195–200. 1928.
- . Proceedings of the New York Entomological Society. 36: 299–303. 1928.
- . Proceedings of the New York Entomological Society. 36: 459–462. 1928.
- . Proceedings of the New York Entomological Society. 37: 77–87. 1929.
- . Proceedings of the New York Entomological Society. 37: 175–179. 1929.
- . Proceedings of the New York Entomological Society. 38: 77–83. 1930.
- . Proceedings of the New York Entomological Society. 38: 213–218. 1930.
- . See DAVIS, WILLIAM T. 38: 469. 1930.
- . Proceedings of the New York Entomological Society. 39: 263–272. 1931.
- . Proceedings of the New York Entomological Society. 39: 493–498. 1931.
- , AND A. J. MUTCHLER. *Saprinus dinidiatipennis*. 42: 86. 1934.
- LEONARD, MORTIMER D. See ALEXANDER, C. P. 20: 36–40. 1912.
- . The immature stages of *Plagiognathus politus* Uhler and *Campylomma verbasci*; Herrick-Schaeffer (Capsidæ, Hemiptera). 23: 193–196. 1915.
- , AND G. W. BARBER. The immature stages of the catnip leafhopper (*Eupteryx melissæ* Curtis). 31: 181–184. 1923.
- . Additions to the New York State list of aphids with notes on other New York species. 44: 177–185. 1936.
- LETCHER, BEVERLY. *Phryganidia californica* Packard. 11: 125–127. 1903.
- LINELL, MARTIN L. A short review of the Chrysomelæ of North America. 4: 195–200. 1896.
- . New genera and species of North American Curculionidæ. 5: 49–56. 1897.
- LINSLEY, E. GORTON. A reclassification of the tribe Ombriini of Leconte (Coleoptera, Cerambycidæ). 48: 367–377. 1940.
- LIU, GAINES. The earliest bureau of entomology. 47: 307–310. 1939.

- LLOYD, J. T. Lepidopterous larvæ from rapid streams. 22: 145-152. 1914.
———. Notes on *Astenophylax argus* Harris (Trichoptera). 23: 57-60. 1915.
———. Notes on the immature stages of some New York Trichoptera. 23: 201-212. 1915.
———. An aquatic dipterous parasite, *Ginglymyia acirostris* Towns., and additional notes on its lepidopterous host, *Elophila fulcalis*. 27: 263-265. 1919.
- LÖBEN SELS, ELIZABETH VON. Some observations on *Phalacrus politus* and other inhabitants of the heads of the New England aster. 42: 319-327. 1934.
- LUDLOW, C. S. Two Philippine Mosquitoes. 10: 127-131. 1902.
———. Note on *Culex annulatus*. 10: 131. 1902.
———. Some Philippine mosquitoes. 11: 137-144. 1903.
- LUDWIG, DANIEL, AND HENRY FOX. Further studies of conditions influencing the survival of Japanese beetles through metamorphosis. 49: 65-75. 1941.
- LUTZ, FRANK E. *Anthrenus fasciatus* in Georgia. 19: 200. 1911.
———. A membracid and mimicry. 20: 67-68. 1912.
———. Factors in aquatic environments. 21: 1-8. 1913.
———. Biological notes concerning *Drosophila ampelophila*. 22: 134-138. 1914.
———. Book notice. Anatomy and Physiology of the Honeybee. By R. E. Snodgrass. 33: 162. 1925.
———. A much-abused but still cheerful cricket. 35: 307-308. 1927.
———. Book notice. Bumblebees and Their Ways. By O. E. Plath. 42: 214. 1934.
- LUTHER, CHARLES H., JR. Description of a variety of *Automeris io*. Fab. 15: 131-132. 1907.
- MACGILLIVRAY, ALEXANDER D. New species of *Tenthredo*. 5: 103-108. 1897.
———. Winding elbow pins. 11: 99-101. 1903.
———. New species of Nematinae (Hymenoptera). 29: 27-35. 1921.
———. Quarter century of species of *Tenthredo* (Hymenoptera). 31: 107-116. 1923.
———. Saw-flies of the Katmai expedition to Alaska. 31: 163-171. 1923.
- MALHOTRA, R. C. Is a bee attracted to clover blossoms by odor? 39: 273-277. 1931.
- MALKIN, BORYS. Additions to New Jersey state list of Coleoptera. 99: 285-291. 1941.
- MALLOCH, J. R. Synopsis of North American species of the genus *Bezzia* (Chironomidae). 22: 281-285. 1914.
- MALUF, N. S. RUSTUM. Physiology of the arthropodan circulatory mechanisms. 47: 227-286. 1939.
- MARCHAND, WERNER. Notes on the early stages of *Chrysops* (Diptera, Tabanidae). 25: 149-163. 1917.

- MARSH, FRANK L. Biology of the new chalcid parasite *Cirrospilus inimicus* Gahan. 46: 27-29. 1938.
- MATAUSCH, IGNAZ. Gynandromorphic Membracidae. 17: 165. 1909.
- . Observations on Membracidae in the vicinity of Elizabeth and Newark, N. J. 18: 164-171. 1910.
- . *Smilia camelus* Fabricius and some of its variations. 18: 171-172. 1910.
- . *Entylia* Germar and its different forms. 18: 260-263. 1910.
- . The effects of parasitic castration in Membracidae. 19: 194-196. 1911.
- . Observations on the life history of *Enchenopa binotata* Say. 20: 58-67. 1912.
- . Notes on a peculiar nymph-variation of *Enchenopa binotata* Say. 24: 151-152. 1916.
- MATHESON, ROBERT. The Halipidæ of North America, North of Mexico. 20: 156-193. 1912.
- MAYR, ERNST. Geographical distribution of species. 49: 114. 1941.
- MCATEE, W. L. Key to the nearctic genera and species of Berytidae (Heteroptera). 27: 79-92. 1919.
- . Notes on neotropical Eupteryginæ, with a key to the varieties of *Alebra*, *Albostriella* (Homoptera: Jassidæ). 34: 141-175. 1926.
- MCCOY, E. E., AND C. W. CARVER. A method for obtaining spores of the fungus *Beauveria bassiana* (Bals.) Vuill., in quantity. 49: 205-210. 1941.
- . See WEISS, HARRY B. 49: 1-20. 1941.
- . See WEISS, HARRY B. 50: 1-35. 1942.
- MCDUNNOUGH, J. See BARNES, WILLIAM. 18: 149-162. 1910.
- . See BARNES, WILLIAM. 19: 81-85. 1911.
- . See BARNES, WILLIAM. 19: 151-162. 1911.
- MCGOVAN, EDWARD R. Increasing the effectiveness of the nicotine insecticidal unit charge. 37: 513-531. 1929.
- MELANDER, A. L. A synopsis of the dipterous groups Agromyzinae, Miliichiinae, Ochthiphilinae and Geomyzinae. 21: 219-273, 283-300. 1913.
- MERCER, WILLIAM FAIRFIELD. The development of the wings in the Lepidoptera. 8: 1-20. 1900.
- MICHENER, CHARLES D. Taxonomic observations on bees with descriptions of new genera and species. (Hymenoptera, Apoidea). 50: 273-282. 1942.
- . History and behavior of a colony of harvester ants. 50: 291-292. 1942.
- MICKEY, GEORGE H., JOHN CARPENTER, R. W. CUMLEY, AND WALTER BURDETTE. Experiments on culture media in regard to oviposition and mass production of *Drosophila melanogaster*. 49: 77-84. 1941.
- MIDDLEKAUFF, WOODROW W. Occurrence of a European sawfly *Acantholyda erythrocephala* (L.) in New York State. 46: 438. 1938.
- MILLER, ALBERT. See RICHARDS, A. GLENN, JR. 45: 1-60. 1937.

- MILNE, MARGERY J. The "Metamorphotype method" in Trichoptera. 46: 435-437. 1938.
- MINER, ROY W. Ignaz Matausch. 24: 155-157. 1916.
- MITCHELL, EVELYN GROESBEECK. On the known larvæ of the genus *Uranotænia*. 14: 8-9. 1906.
- . Descriptions of nine new species of gnats. 16: 7-14. 1908.
- MOFFAT, J. ALSTON. Note on *Cicendela scutellaris* var. *lecontei* Dej. 2: 80. 1894.
- MOORE, WARREN. Esters as repellents. 42: 185-192. 1934.
- MORSE, ALBERT P. On the use of bisulphide. 2: 191. 1894.
- . New North American Tettiginæ. I. 3: 14-16. 1895.
- . New North American Tettiginæ. II. 3: 107-109. 1895.
- . Some notes on locust stridulation. 4: 16-20. 1896.
- . Both sides of butterflies. 4: 20-22. 1896.
- . New North American Tettiginæ. III. 7: 198-201. 1899.
- MORSE, MIRIAM. The external morphology of *Chrysopa perla* L. (Neuroptera: Chrysopidæ). 39: 1-43. 1931.
- MORTON, EMILY L. See DYAR, HARRISON G. 3: 145-157. 1895.
- . See DYAR, HARRISON G. 4: 1-9. 1896.
- MOTTER, MURRAY GALT. A contribution to the study of the fauna of the grave. A study of one hundred and fifty disinterments with some additional experimental observations. 6: 201-231. 1898.
- MUIR, F. The male genitalia of *Cupes concolor* Westw. (Coleoptera). 32: 167-169. 1924.
- MULAİK, STANLEY. See CHAMBERLIN, RALPH V. 1941.
- MURPHY, HELEN E. Observations on the egg-laying of the caddice-fly *Brachycentrus nigrisoma* Banks, and on the habits of the young larvæ. 27: 154-159. 1919.
- MURPHY, ROBERT CUSHMAN. Reactions of the spider, *Pholcus phalangioides*. 22: 173-174. 1914.
- MUTCHLER, ANDREW J. See LENG, CHARLES W. 42: 86. 1934.
- MYERS, J. G. Biological notes on *Arachnocoris albomaculatus* Scott (Hemiptera: Nabidæ). 33: 136-146. 1925.
- MYERS, MABEL A. Observations on the habits and life-history of the moth *Lophoptilus eloisella*. 35: 241-244. 1927.
- NABOKOV, V. *Lysandra cormion*, a new European butterfly. 49: 265-267. 1941.
- . On some Asiatic species of *Carterocephalus*. 49: 221-223. 1941.
- NEEDHAM, JAMES G., AND MAUDE H. ANTHONY. The skewness of the thorax in the Odonata. 11: 117-125. 1903.
- , AND ELSIE BROUGHTON. Central American stoneflies with descriptions of new species (Plecoptera). 35: 109-121. 1927.
- . Some basic principles of insect wing venation. 43: 113-129. 1935.
- NELSON, FRANKLIN C. The use of honey bees for testing liquid insecticides. 45: 341-352. 1937.

- NEUMOEGEN, B., AND HARRISON G. DYAR. New species and varieties of Bombyces. 1: 29-35. 1893.
- NEUMOEGEN, B. A new Lithosid genus. 1: 35-36. 1893.
- , AND HARRISON G. DYAR. A preliminary revision of the Bombyces of America North of Mexico. 1: 97-118; 153-180. 1893.
- AND ———. A preliminary revision of the Bombyces of America North of Mexico. 2: 1-30; 57-76; 109-132; 147-174. 1894.
- NEWCOMER, E. J. Some observations on the relations of ants and Lycænid caterpillars, and a description of the relational organs of the latter. 20: 31-36. 1912.
- NICOLAY, ALAN S. Rhynchophora in Maine. 24: 307. 1916.
- . Synopsis of the *Anthophilax* of North America (Col.). 25: 38-44. 1917.
- , AND HARRY B. WEISS. A review of the genus *Buprestis* in North America. 26: 75-109. 1918.
- AND ———. Additions and corrections to the review of the genus *Buprestis* in North America. 27: 241. 1919.
- AND ———. The group Traches in North America. Part I. The genera *Pachyschelus* and *Taphrocerus*. 28: 136-150. 1920.
- NICOLAY, ALAN S. Corrections and additions to the Leng list of Coleoptera. Family Buprestidæ, No. 1. 29: 173-178. 1921.
- , AND HARRY B. WEISS. The group Traches in North America. Part II. The genus *Brachys* (Coleoptera). 31: 59-76. 1923.
- AND ———. Synopsis of the Cicindelidæ. I. General Introduction, bibliography and Purpurea group. 40: 341-355. 1932.
- AND ———. Notes on Carabidæ, including a synopsis of the genera *Cylindrocharis*, *Euferonia*, *Melanius* (*Osmaseus*) and *Dysidius* of the tribe Pterostichini. 42: 193-213. 1934.
- NOTMAN, HOWARD. *Boreaphilus*, a genus of staphylinid Coleoptera new to North America. 26: 182-189. 1918.
- . Coleoptera collected at Cochrane, northern Ontario, August 22-30, 1918, with descriptions of six new species. 27: 92-102. 1919.
- . Records and new species of Carabidæ. 27: 225-237. 1919.
- . Notes and new species of *Bembidium*. 27: 292-297. 1919.
- . Coleoptera collected at Schoharie, N. Y., June 9-14, 1918, with descriptions of new species. 28: 14-31. 1920.
- . Legs in the Carabidæ. 28: 80-89. 1920.
- . Coleoptera collected at Windsor, Broome Co., N. Y., 26 May to 5 June, 1918, with notes and descriptions. 28: 178-194. 1920.
- . Some new genera and species of Coleoptera collected at Westfield, Chautauqua Co., N. Y. 29: 145-160. 1921.
- . A new genus and species of weevil from Texas (Coleoptera). 30: 128-129. 1922.
- . A new xantholinid swarming on gravestones on Staten Island and a new *Trogophlæus* (Coleoptera: Staphylinidæ). 32: 71-72. 1924.
- . A new species of *Bembidion* from Lake Superior (Coleoptera, Carabidæ). 37: 157-158. 1929.

- OCHS, GEORG. Remarks on "a list of the insects of New York." 38: 135-138. 1930.
- OLSEN, CHRIS E. Notes on breeding Hemiptera. 18: 39-42. 1910.
- . Contribution to an annotated list of Long Island insects (Hemiptera). 20: 48-58. 1912.
- . Notes on *Dræculacephala inscripta* Van Duzee. 25: 215-218. 1917.
- . *Idiocerus cognatus* Fieber, established in North America. 27: 126-128. 1919.
- . Backyard collecting in Ramsey, N. J. 31: 171-175. 1923.
- . A review of DeLong's monograph of the genus *Deltocephalus*. 34: 265-268. 1926.
- . The list of Ohio leafhoppers. 37: 58. 1929.
- . Dr. Frederick Webster Goding. 42: 443-449. 1934.
- OSBURN, M. R. Effect on certain fresh fruits of fumigation with ethylene oxide to destroy the Japanese beetle. 39: 567-576. 1931.
- OSBURN, RAYMOND C. The Odonata of the Biologia Centrali-Americana. 17: 39-41. 1909.
- . Studies on Syrphidæ. I. *Syrphus arcuatus* Fallén and a related new species. 18: 53-66. 1910.
- . Odonata in relation to hydrophytic environment. 21: 9-11. 1913.
- . Tabanidæ as inhabitants of the hydrophytic area. 21: 63-65. 1931.
- . Syrphidæ in the hydrophytic area. 21: 66-67. 1913.
- . Studies in Syrphidæ. IV. Species of *Eristalis* new to America, with notes on others. 23: 139-145. 1915.
- . A small collection of Odonata from Atlin, British Columbia. 23: 152-153. 1915.
- . A migratory flight of dragonflies. 24: 90-92. 1916.
- OTTOLENGUI, RODRIGUES. Note on the capture of *Brotis vulneraria*. 1: 91. 1893.
- . Plusia and allied genera with descriptions of new species. 10: 57-77. 1902.
- . Notes on *Calocampa* with description of a new species. 10: 77-79. 1902.
- . Notes on the Plusiinae, with descriptions of new species and races. 27: 117-126. 1919.
- PACKARD, ALPHEUS S. Attempt at a new classification of the Bombycine moths. 1: 6-11. 1893.
- . Notes on the life-histories of some Notodontidæ. Part I. 1: 22-28. 1893.
- . Notes on the life-histories of some Notodontidæ. Part II. 1: 57-76. 1893.
- . Life-history of *Heterocampa obliqua* Pack. 3: 27-29. 1895.
- . A clew to the origin of the geometrid moths. 3: 30-32. 1895.

- . On the larvæ of the Hepialidæ. 3: 69-72. 1895.
- . The eversible repugnatorial scent glands of insects. 3: 110-127. 1895.
- . Early stages of some Bombycine caterpillars. 3: 175-180. 1895.
- . Literature on defensive or repugnatorial glands of insects. 4: 26-32. 1896.
- . The phosphorescent organs of insects. 4: 61-66. 1896.
- . Desiderata of North American Notodontidæ. 4: 93-94. 1896.
- . Notes on the transformations of the higher Hymenoptera. I. 4: 155-166. 1896.
- . Notes on the transformations of the higher Hymenoptera. 5: 77-87. 1897.
- . Notes on the transformations of higher Hymenoptera. III. 5: 109-120. 1897.
- . A new genus of sphingicampid moths allied to *Bunæa*. 9: 191-192. 1901.
- . Two new genera of Bunæine African moths. 10: 100-106. 1902.
- . Color-preference in insects. 11: 132-137. 1903.
- . New generic types of Bombycine moths. 11: 244-249. 1903.
- . Sound produced by a Japanese Saturnian caterpillar (*Lepidoptera*). 12: 92-93. 1904.
- . Change of color and protective coloration in a flower-spider (*Misumena vatia* Thorell). 13: 85-96. 1905.
- PALM, CHARLES. Notes on some North American moths. 1: 20-21. 1893.
- PARFENTJEV, I. A. The development of Russian entomology. 37: 153-155. 1929.
- PARK, ORLANDO. Taxonomic studies in Coleoptera with notes upon certain species of beetles in the Chicago area, I. 37: 429-436. 1929.
- . The food of *Batrisodes globosus* (Lec.), (Coleop. Pselaphidæ). 40: 377-378. 1932.
- PARKER, L. B. Three new species of *Tiphia* from Eastern Asia. 43: 395-404. 1935.
- . Seven new species of Asiatic *Tiphia*. 45: 269-290. 1937.
- PARKER, R. R. Sarcophagidæ of New England. Genus *Sarcophaga*. 24: 171-175. 1916.
- . Notes concerning *Gastrophilus hæmorrhoidalis* Linnaeus (Dipt.) 24: 253-255. 1916.
- . A new species of *Sarcophaga* from Niagara Falls. 26: 28-30. 1918.
- . Another new species of *Sarcophaga* from Niagara Falls. 27: 265-267. 1919.
- PECHUMAN, L. L. Additions to the New York state list of Tabanidæ. 46: 457-460. 1938.
- PEARSALL, RICHARD F. A genus and species of Geometridæ new to North America. 15: 132-133. 1907.

- . Eastern and central Eupithecias. 16: 98-103. 1908.
- . Another species of *Pero* Herr. Schaef. 19: 90-92. 1911.
- . The genus *Philobia* Duponchel and some representatives in our fauna, (Lep., Geom.). 21: 186-193. 1913.
- PETERSON, ALVAH. How many species of *Trichogramma* occur in North America. 38: 1-8. 1930
- . Are economic entomologists becoming "insecticide minded"? 40: 159-165. 1932.
- PETRUNKOVITCH, ALEXANDER. Attidæ of the Yale Dominica Expedition. 22: 329-331. 1914.
- . Description of *Orchestina saltitans* Banks (Arachnida). 28: 157-160. 1920.
- . New Erigoninæ from Tennessee. 33: 170-176. 1925.
- . On the systematic position of the spider genus *Nicodamus* Simon. 37: 417-420. 1929.
- . Collecting *Hypochilus*. 40: 19-23. 1932.
- . New observations on moulting and mating in Tarantulæ. 42: 289-296. 1934.
- PHILLIPS, VENIA TARRIS. A revision of the Trypetidæ of northeastern America. 31: 119-155. 1923.
- PHILLIPS, W. J., AND G. W. BARBER. Seasonal abundance of eggs of the corn ear worm moth in Virginia. 48: 305-317. 1940.
- PIERCE, W. DWIGHT. The bearing of the oxytofactor in insect control. 30: 159-165. 1931.
- . A list of the sugar cane insects of Negros Occidental. 39: 577-586. 1931.
- PLUMMER, C. C. Descriptions of new Membracidæ from Mexico. 43: 373-385. 1935.
- . The genus *Atymna* Stål. and a new related genus (Homoptera; Membracidæ). 46: 235-243. 1938.
- POLLARD, CHARLES LOUIS. Habits of South American equatorial butterflies. 39: 167-170. 1931.
- POWELL, P. B. The development of wings of certain beetles, and some studies of the origin of the wings of insects. 12: 237-243. 1904.
- . The development of wings of certain beetles, and some studies of the origin of the wings of insects. 13: 5-22. 1905.
- PRITCHARD, A. EARL. Synopsis of North and Central American *Holcocephala* with a description of a new species (Diptera: Asilidæ). 46: 11-21. 1938.
- . Revision of the robberfly genus *Taracticus* Loew with descriptions of three new species (Diptera: Asilidæ). 46: 179-190. 1938.
- PRATT, ROBERT Y., AND MELVILLE H. HATCH. The food of the black widow spider on Whidby Island, Washington. 46: 191-193. 1938.
- PRATT, HARRY D. Studies on the Ichneumonidæ of New England (Hymenoptera). 48: 155-193. 1940.
- PROUT, LOUIS B. Editorial. 13: 213-215. 1905.

- PUBLICATION COMMITTEE. Concerning Townsend's "Inside History of North American Myiology." 34: 69-70. 1926.
- PYENSON, LOUIS. The shielding effects of various materials when insects are exposed to the lines of force in a high frequency electric-static field. 41: 241-262. 1933.
- RAWSON, G. W. The addition of a new skipper, *Adopæa lineola* (Ochs.), to the list of U. S. Lepidoptera. 39: 503-506. 1931.
- REHN, JAMES A. G., AND MORGAN HEBARD. United States and Mexican records of species of the genus *Doru* (Dermaptera: Forficulidæ). 22: 89-96. 1914.
- AND ———. Records of Dermaptera and Orthoptera from west central and south western Florida, collected by William T. Davis. 22: 96-116. 1914.
- REHN, JAMES A. G. Entomological prehistory. 49: 298-299. 1941.
- REINHARD, H. J. North American two-winged flies of the genus *Doryphorophaga* (Trachinidæ, Diptera). 43: 387-394. 1935.
- . A review of the muscoid genus *Eumacronychia* with key and descriptions of new species (Diptera). 47: 57-68. 1939.
- REX, EDGAR G. A wire beetle receptacle for Japanese beetle traps. 39: 593-597. 1931.
- . A promising fungous pathogen of adult Japanese beetles (*Po-pillia japonica*). 48: 401-403. 1940.
- RICH, STEPHEN G. Some respiratory structures of dragonfly larvæ. 24: 306-307. 1916.
- RICHARDS, A. GLENN, JR. Morphology of the female reproductive system of *Incurvaria russatella* Clemens (Lepid.). 41: 167-185. 1933.
- , AND ALBERT MILLER. Insect development analyzed by experimental methods; a review. 45: 1-60. 1937.
- . Insect development analyzed by experimental methods: a review. Part II. 45: 149-210. 1937.
- . Book notice. Review of McDunnough's new check list of the Macrolepidoptera. 46: 439-443. 1938.
- . Some aspects of sterility in insects. 47: 96-97. 1939.
- , AND THOMAS F. ANDERSON. Electron micrographs of insect tracheæ. 50: 147-167. 1942.
- . Electron microscope studies of insect cuticle. 50: 212-213. 1942.
- , AND THOMAS F. ANDERSON. Further electron microscope studies on arthropod tracheæ. 50: 245-247. 1942.
- RICHARDSON, C. H. See AUSTIN, JEAN. 1941.
- RICHMOND, E. AVERY. The external morphology of *Hydrophilus obtusatus* Say (Coleoptera: Hydrophilidæ). 39: 191-251. 1931.
- RIVNAY, E. External morphology of the Colorado potato beetle (*Leptinotarsa decemlineata* Say). 36: 125-145. 1928.
- ROBBINS, W. W. See COCKERELL, T. D. A. 17: 104-107. 1909.
- ROBERTS, CHRIS H. The distinctive characters of the eastern species of the genera *Dytiscus* and *Cybister* (Coleoptera). 13: 103-107. 1905.

- . Critical notes on the species of Haliplidæ of America north Mexico with descriptions of new species. **21**: 91-123. 1913.
- ROBERTS, RAIFORD A. Some insects collected in Mexico, mostly in association with man and animals or animal products. **42**: 249-262. 1934.
- ROBINSON, WIRT. Color pattern in Coleoptera wings. **20**: 292. 1912.
- . *Dicerea obscura* and *Dicercia lurida*. **23**: 151-152. 1915.
- . Beetles collected on a dead black oak in Virginia. **26**: 30-33. 1918.
- ROHWER, S. A. New western Tenthredinidæ. **16**: 103-114. 1908.
- . The sawfly genus *Cryptocampus* in boreal North America. **17**: 7-25. 1909.
- RUCKES, HERBERT. Mouth parts of insects. **42**: 227-228. 1934.
- . The biology of south-western insects. **42**: 235-236. 1934.
- . *Brochymena* A. & S. **99**: 113-114. 1941.
- RUDOLFS, WILLEM. Relation between temperature, humidity and activity of house mosquitoes. **33**: 163-169. 1925.
- . Studies on chemical changes during the life cycle of the tent caterpillar (*Malacosoma americana* Fab.). I. Moisture and fat. **34**: 249-256. 1926.
- . Studies on chemical changes during the life cycle of the tent caterpillar (*Malacosoma americana* Fab.). II. Nitrogen and its relation to moisture and fat. **34**: 319-330. 1926.
- . Studies on chemical changes during the life cycle of the tent caterpillar (*Malacosoma americana* Fab.). III. Soluble ash and sulphates. **35**: 219-229. 1927.
- . Studies on chemical changes during the life cycle of the tent caterpillar (*Malacosoma americana* Fab.). IV. Glycogen. **37**: 17-23. 1929.
- . Studies on chemical changes during the life cycle of the tent caterpillar (*Malacosoma americana* Fab.). **40**: 481-488. 1932.
- SABROSKY, CURTIS W. Taxonomic notes on the dipterous family Chloropidæ. I. **46**: 417-434. 1938.
- SANDERS, GEORGE E. The abundance and distribution of termites in the New York region. **42**: 243-246. 1934.
- SANFORD, LEONARD J. A new record for Connecticut. **48**: 244. 1940.
- . *Atrytone logan* Edwards. **48**: 258. 1940.
- SATTERTHWAIT, A. F. *Anaphoidea calendræ* Gahan, a mymarid parasite of eggs of weevils of the genus *Calendra*. **39**: 171-190. 1931.
- SCHAEFFER, CHARLES. Proceedings of the New York Entomological Society. **8**: 206-212. 1900.
- . Note on species of *Psilopyga*. **9**: 86. 1901.
- . Proceedings of the New York Entomological Society. **9**: 91-96. 1901.
- . Proceedings of the New York Entomological Society. **9**: 195-200. 1901.
- . Proceedings of the New York Entomological Society. **10**: 55-56. 1902.

- . New genera and species of Coleoptera. 12: 197–236. 1904.
- . Three new species of the genus *Statira* Latreille. 13: 179–181. 1905.
- . Notes on some species of the genus *Anomala* with descriptions of new species. 14: 1–5. 1906.
- . New Scarabæidæ. 15: 60–75. 1907.
- . New Rhynchophora. II. 15: 75–80. 1907.
- . On North American and some Cuban Copelatus. 16: 16–18. 1908.
- . List of the Lampyridæ from the Huachuca Mountains, Arizona, and descriptions of new species. 16: 61–67. 1908.
- . On new and known Coleoptera of the families Coccinellidæ and Cleridæ. 16: 125–135. 1908.
- . New Rhynchophora. III. 16: 213–222. 1908.
- . Four new Cerambycidæ. 17: 99–103. 1909.
- . Three Cuban Coleoptera new to the fauna of the United States. 17: 148–150. 1909.
- . New clavicorn Coleoptera. 18: 210–216. 1910.
- . New Coleoptera and miscellaneous notes. 19: 113–126. 1911.
- . *Sphæridium bipustulatum* Fabr. 20: 68–69. 1912.
- . Notes on some North American species of *Rhizophagus* (Col. Nitid.). 21: 309–311. 1913.
- . A short review of the North American species of *Onthophagus* (Col. Scarab.). 22: 290–300. 1914.
- . New Coleoptera and miscellaneous notes. 23: 47–55. 1915.
- . Change of generic names. 23: 68–69. 1915.
- . *Tychius* (*Microtogus*) *picrostris* Fab. 23: 197. 1915.
- . New Coleoptera and miscellaneous notes. III. 23: 235–238. 1915.
- . New Diptera of the family Asilidæ with notes on known species. 24: 65–69. 1916.
- . New species of the family Elateridæ (Col.) 24: 256–267. 1916.
- . On some North American Cleridæ (Col.). 25: 129–134. 1917.
- . On *Merium* and some blue Callidium (Col.). 25: 183–187. 1917.
- . On some genera and species of the family Ostomidæ. 26: 190–201. 1918.
- . Miscellaneous coleopterological notes and descriptions. 26: 211–214. 1918.
- . Synonymical and other notes on some species of the family Chrysomelidæ and descriptions of new species. 27: 307–340. 1919.
- . On a few new and old Chrysomelidæ. 32: 138–145. 1924.
- . New species and varieties of North American Cassidini (Coleoptera, Chrysomelidæ). 33: 233–237. 1925.
- . The North American species of *Hydrothassa* with notes on other Chrysomelidæ and a description of new species and a variety (Col.). 36: 287–291. 1928.

- . New species of *Disonycha* and notes (Col., Chrysomelidae). 39: 279-285. 1931.
- . Short studies in the Chrysomelidae (Coleoptera). 41: 297-325; 457-480. 1933.
- SCHAUS, WILLIAM. New species of Heterocera. 4: 51-60. 1896.
- . New species of American Heterocera. 4: 130-145. 1896.
- . New species of Heterocera from tropical America. 4: 147-154. 1896.
- . New species of Geometridae from tropical America. 5: 161-166. 1897.
- . New species of Heterocera from tropical America. 6: 138-149. 1898.
- . New species of Lithosiidae from tropical America. 7: 214-217. 1899.
- . New species of Heterocera from tropical America. 8: 225-234. 1900.
- . New species of Heterocera from tropical America. I. 9: 40-48. 1901.
- . New species of Heterocera from tropical America. 9: 73-77. 1901.
- . A new species of *Dirphia*. 10: 54. 1902.
- . New Noctuidae from tropical America. 11: 230-236. 1903.
- . A new form of *Hyloicus* discovered in Ecuador by W. Judson Coxey. 40: 375. 1932.
- SCHOTT, FRED M. Notes on Lepidoptera and Hymenoptera. 33: 53-56. 1925.
- . On some Coleoptera in New Jersey. 33: 224-225. 1925.
- SCHMITT, JOHN B. The feeding mechanism of moths and butterflies. 46: 233-234. 1938.
- SCHREAD, JOHN C., AND PHILIP GARMAN. Some effects of refrigeration on the biology of *Trichogramma* in artificial breeding. 42: 263-283. 1934.
- SCHROTTKY, C. Two new Nomadidae (Hymenoptera) from South America. 18: 208-210. 1910.
- SCHWARZ, HERBERT F. Bees of the subfamily Anthidiinae, including some new species and varieties, and some new locality records. 36: 369-419. 1928.
- . A gynandromorphic specimen of *Trigona cupira* var. *rhumbleri* (Friese). 37: 145-151. 1929.
- . Anthidiine bees from Oregon with a description of a new species. 38: 9-14. 1930.
- . A case of stylopization in a panurgid bee, *Liopæum submetallicum* (Spinola). 39: 77-79. 1931.
- . *Anthidium polingæ*, new species from Texas. 39: 315-321. 1931.
- . Further comments on *Melipona*. 44: 1-6. 1936.
- . Anthidiine bees in the collection of the Natural History Museum of San Diego, California. 45: 377-385. 1937.

- SCOTLAND, MINNIE B. Review and summary of studies of insects associated with *Lemma minor*. 48: 319-333. 1940.
- SCUDDER, SAMUEL H. The North American species of *Nemobius*. 4: 99-107. 1896.
- . A tropical type of Acridian new to the United States. 8: 213-214. 1900.
- SEGAL, BERNARD. Synopsis of the Tabanidæ of New York, their biology and taxonomy. 44: 51-78; 125-154. 1936.
- SEIFERT, OTTO. Life-history of *Feralia jocosa*. 6: 182-187. 1898.
- . Life-history of *Platysenta videns* Guen. 9: 12-19. 1901.
- . Contributions to the knowledge of North American Arctiidæ, I-II. 10: 1-10. 1902.
- . Contributions to the knowledge of North American Arctiidæ, III. 10: 82-89. 1902.
- SEVERIN, HARRY C. See SEVERIN, HENRY H. P. 19: 99-108. 1911.
- . See SEVERIN, HENRY H. P. 22: 240-248. 1914.
- SEVERIN, HENRY H. P., AND HARRY C. SEVERIN. Habits of *Belostoma* (= *Zaitha*) *flumineum* Say and *Nepa apiculata* Uhler, with observations on other closely related aquatic Hemiptera. 19: 99-108. 1911.
- , ———, AND ———. Relative attractiveness of vegetable, animal and petroleum oils for the Mediterranean fruit fly (*Ceratitis capitata* Wied.). 22: 240-248. 1914.
- SHARP, D. Studies in Rhynchophora, VI. "The New York Weevil." 26: 215-218. 1918.
- . Extract from a letter of Dr. David Sharp re *Rhynchophorus palmarum*. 26: 225-226. 1918.
- . Studies in Rhynchophora. IX. The sexes of *Conotrachelus brevisetis* Champ. 28: 74-78. 1920.
- SHANNON, HOWARD J. A preliminary report on the seasonal migrations of insects. 34: 199-205. 1926.
- SHAW, ETHEL LOUISE. Insects from *Lactuca* stems. 38: 463-468. 1930.
- SHELFORD, VICTOR E. Horn's Systematischer Index der Cincindeliden. 14: 5-8. 1906.
- SHERMAN, ELIZABETH. Proceedings of the New York Entomological Society. 39: 498-502. 1931.
- . Proceedings of the New York Entomological Society. 39: 599-606. 1931.
- . Proceedings of the New York Entomological Society. 40: 267-277. 1932.
- . Proceedings of the New York Entomological Society. 41: 397-405. 1933.
- . Proceedings of the New York Entomological Society. 42: 135-143. 1934.
- . Proceedings of the New York Entomological Society. 42: 227-247. 1934.
- SHERMAN, JOHN D., JR. A list of Labrador Coleoptera. 18: 173-197. 1910.

- . Some habits of the Dytiscidae. 21: 43-54. 1913.
- . Frederick Blanchard. 21: 69-71. 1913.
- . *Nemobius*. 26: 225. 1918.
- . Some entomological and other bibliographies. 32: 206-215. 1924.
- . Ed. letters of A. E. Schwarz. 37: 181-393. 1929.
- . Henry Clinton Fall. 48: 33-36. 1940.
- . Charles W. Leng. 49: 185-187. 1941.
- SHOEMAKER, ERNEST. Baiting for beetles at Eagle Rock. 20: 194-195. 1912.
- . See LENG, CHARLES W. 23: 55-56. 1915.
- SIBLEY, CHARLES K. New species of New York caddisflies. 34: 79-81. 1926.
- SIM, ROBERT J. Scarabæidae, Coleoptera: Observations on species unrecorded or little-known in New Jersey. 38: 139-147. 1930.
- . Five sericine beetles. 40: 379-383. 1932.
- . Five lace-bug species not previously recorded from New Jersey. 44: 280. 1936.
- . Hesperid larva defoliating kudzu vine. 44: 316. 1936.
- . Note on giant swallow-tail butterfly in New Jersey. 45: 402. 1937.
- . New Jersey lace-bug notes. 45: 408. 1937.
- SKINNER, ALANSON. The use of insects and other invertebrates as food by the North American Indians. 18: 264-267. 1910.
- SKINNER, HENRY. Impressions received from a study of our North American Rhopalocera. 4: 107-118. 1896.
- SLEIGHT, CHARLES E. *Catocala herodias* Strecker, at Lakehurst, N. J. 17: 166. 1909.
- SLIFER, ELEANOR H., AND ROBERT L. KING. An internal structure in the Cyrtacanthacrinae (Orthoptera, Acrididae) of possible taxonomic value. 44: 345-348. 1936.
- SLOSSON, ANNIE TRUMBULL. Common versus proper. 1: 1-5. 1893.
- . Spring collecting in northern Florida. 1: 147-152. 1893.
- . Florida field notes. 2: 106-107. 1894.
- . Note on *Enemia crassinervella* Zell. (*Mieza igninix* Walk.). 4: 86-87. 1896.
- . List of Araneæ taken in Franconia, New Hampshire. 6: 247-249. 1898.
- . A few memories. 23: 85-91. 1915.
- . A few memories. II. 25: 93-97. 1917.
- . Reminiscences of the early days of the New York Entomological Society. 26: 134-137. 1918.
- SMITH, C. F. See KNOWLTON, G. F. 46: 217-222. 1938.
- SMITH, CHARLES LOREN. The relation between the degree of fineness of pyrethrum powder produced by different periods of grinding to toxicity to insects and to deterioration by light and air. 44: 317-339. 1936.
- SMITH, FRANK K. Larval characters of the genus *Dixa*. 36: 263-286. 1928.

- SMITH, JOHN B. Notes on species of *Noctua* with descriptions of new forms. 6: 98-120. 1898.
- . Notes on *Scotogramma* and *Oncocnemis* with descriptions of new species. 7: 37-44. 1899.
- . New noctuids and notes. 7: 223-234. 1899.
- . New species of Floridian Noctuidæ. 8: 173-177. 1900.
- . Notes on some digger bees. I. 9: 29-40. 1901.
- . Notes on some digger bees. II. 9: 52-72. 1901.
- . Life-history of *Aedes smithii* Coq. 10: 10-15. 1902.
- . New species of Noctuidæ for 1902. 10: 33-53. 1902.
- . Note on *Mamestra van-orbicularis* Sm. 10: 142. 1902.
- . New noctuids for 1903, No. 2, with notes on *Mamestra* and *Scotogramma*. 11: 1-23. 1903.
- . New noctuids for 1903. No. 5. 11: 188-193. 1903.
- . Remarks on the catalogue of the Noctuidæ in the collection of the British Museum. 12: 93-104. 1904.
- . New species of Noctuidæ for 1905: No. 3 (Lepidoptera). 13: 188-211. 1905.
- . New Noctuidæ for 1906. No. 1 (Lepidoptera). 14: 9-30. 1906.
- . Notes on some American noctuids in the British Museum. 15: 141-162. 1907.
- . New species of Noctuidæ for 1908. I. With notes on *Charadra*, *Raphia* and *Pseudanarta*. 16: 79-98. 1908.
- . New species of Noctuidæ for 1909. 17: 57-71. 1909.
- . New species of Noctuidæ for 1910. No. 1. 18: 85-98. 1910.
- . Notes on the North American species of *Agroperina* Hampson. 18: 137-148. 1910.
- . New species of Noctuidæ for 1911. No. 1. 19: 133-151. 1911.
- SMITH, M. R. Observations and remarks on the slave-making raids of three species of ants found at Urbana, Illinois. 36: 323-333. 1928.
- . Is *Eciton mexicanum* F. Smith really *Eciton pilosus* F. Smith? 39: 295-298. 1931.
- . A list of the ants of South Carolina. 42: 353-361. 1934.
- . A list of the ants of Texas. 44: 155-170. 1936.
- . A study of the subspecies of *Odontomachus hæmatoda* (L.) of the United States (Hymenoptera, Formicidæ). 47: 125-130. 1939.
- SNODGRASS, ROBERT E. The terminal abdominal segments of female Tipulidæ. 11: 177-188. 1903.
- . The Coulee cricket of central Washington (*Peranabrus scabricollis* Thomas). 13: 74-82. 1905.
- SORACI, FRANK A. *Neoaplectana glaseri*. 43: 138. 1935.
- . Persistence of *Tortilia viatrix* Busck. 46: 320. 1938.
- . Occurrence of a sawfly (*Acantholyda erythrocephala* L.) in New Jersey. 46: 326. 1938.
- . Distribution of the sawfly (*Acantholyda erythrocephala* L.) in New Jersey. 46: 444. 1938.

- . *Neodiprion sertifer*. 47: 124. 1939.
- . Distribution in New Jersey of *Corigetetus castaneus* Rølofs. 48: 318. 1940.
- . Hibernation of (*Myloccerus*) *Corigetetus castaneus* Rølofs. 49: 138. 1941.
- . See WEISS, HARRY B. 49: 1-20. 1941.
- . See WEISS, HARRY B. 50: 1-35. 1942.
- SPASSKY, S. *Araneorum species novæ*, II. 42: 1-5. 1934.
- SPIETH, HERMAN T. The phylogeny of some mayfly genera. 41: 55-86; 327-391. 1933.
- . Present problems of species concept. 43: 252. 1935.
- . An oligoneurid from North America. 45: 139-145. 1937.
- . Studies on the biology of the Ephemeroptera. II. The nuptial flight. 48: 379-390. 1940.
- SPULER, ANTHONY. North American species of the subgenus *Scotophilella* *duda* (Diptera, Borboridæ). 33: 70-84; 147-162. 1925.
- STEELE, BRANDT F. Notes on the feeding habits of carrion beetles. 35: 77-81. 1927.
- STEWART, M. A. The insect visitants and inhabitants of *Melilotus alba*. 38: 43-46. 1930.
- STOLLMEYER, C. REX. Notes on the life-history of *Morpho peleides insularis* Fruhstorfer. 40: 523-527. 1932.
- STONER, DAYTON. See WEBSTER, R. L. 22: 229-234. 1914.
- STRETCH, RICHARD H. Heterocera Americana. 14: 117-124. 1906.
- STRICKLAND, E. H. A quiescent stage in the development of *Termes flavipes* Kollar. 19: 256-259. 1911.
- STURTEVANT, A. H. Acalypteræ (Diptera) collected in Mobile County, Alabama. 26: 34-40. 1918.
- . The seminal receptacles and accessory glands of the Diptera, with special reference to the Acalypteræ. 33: 195-215. 1925.
- . The seminal receptacles and accessory glands of the Diptera, with special reference to the Acalypteræ. 34: 1-21. 1926.
- SUGDEN, JOHN W. Characteristics of certain western cicadas. 48: 117-125. 1940.
- SUNDERLAND, C. H. *Papilio marcellus* Cramer. 26: 227. 1918.
- SWAINSON, E. M. Notes on larvæ of Lepidoptera. 8: 32-34. 1900.
- . Notes on lepidopterous larvæ from Jamaica, B. W. I. 9: 77-82. 1901.
- SWEETMAN, HARVEY L. The external morphology of the Mexican bean beetle, *Epilachna corrupta* Muls. (Coccinellidæ, Coleoptera). 38: 423-453. 1930.
- SWENK, MYRON H. A synopsis of the North American species of *Japyx*. 11: 129-132. 1903.
- . The North American species of *Cuterebra*. 13: 181-185. 1905.
- . Descriptions and records of North American Hippoboscidæ. 24: 126-136. 1916.

- SWETT, LOUIS W. Notes on the genus *Caripeta* with description of a new species. 14: 128-129. 1906.
- . Geometrid notes. 15: 53-54. 1907.
- . Some Newfoundland Geometridæ, with description of a new variety. 15: 128-129. 1907.
- TAUBER, OSCAR E. See GRIFFITHS, JAMES T. 50: 263-272. 1942.
- TAYLOR, GEORGE W. A note on *Agia eborata* Hulst. 12: 46-47. 1904.
- . Some new Geometridæ from Arizona. 14: 130-131. 1906.
- . *Eucymatoge rectilineata*, a new geometrid moth from Colorado. 15: 234. 1907.
- THOMAS, C. A. The animals associated with edible fungi. 47: 11-37. 1939.
- . The Elateridæ of Pennsylvania. 49: 233-263. 1941.
- THOMSEN, LILLIAN. New species of New York state Ceratopogonidæ. 43: 283-297. 1935.
- TIETZ, HARRISON M. The genotypes of the North American Hadeninæ (Lepidoptera, Noctuidæ). 41: 441-456. 1933.
- . The genotypes of the North American Hadeninæ (Lepidoptera, Noctuidæ). 45: 61-107; 211-249. 1937.
- TILBURY, MARY RUTH. Notes on the feeding and rearing of the midge, *Chironomus cayugæ* Johannsen. 21: 305-308. 1913.
- TIMBERLAKE, P. H. Notes on the North American species of *Hippodamia* (Coleoptera). 27: 162-174. 1919.
- . New records and descriptions of bees of the genus *Perdita* (Hymenoptera). 37: 111-115. 1929.
- . Ten new species of *Stelis* from California (Hymenoptera, Apoidea). 49: 123-137. 1941.
- TINKHAM, E. R. Western Orthoptera attracted to lights. 46: 339-353. 1938.
- . Biological and faunistic notes on the Cicadidæ of the Big Bend region of Trans-Pecos, Texas. 49: 165-183. 1941.
- TITUS, E. S. G. Notes on Osmiinæ with descriptions of new genera and species. 12: 22-27. 1904.
- TOWNSEND, C. H. TYLER. Ticks in the ears of horses. 1: 49-51. 1893.
- . Another leaf-miner of *Populus*. 1: 76-77. 1893.
- . Note on a new antlion allied to *Myrmelcon blandus* (Hagan). 1: 77-78. 1893.
- . A Nycteribid from a New Mexico bat. 1: 79-80. 1893.
- . The larva and pupa of *Eucaterva variaria* Grt. 2: 37-38. 1894.
- . Some new Santo Domingo Tachinidæ. 2: 78-79. 1894.
- . Notes on the tenthredinid gall of *Euura orbitalis* on *Salix* and its occupants. 2: 102-104. 1894.
- . On the correlation of habit in nemoscerous and brachycerous Diptera between aquatic larvæ and blood-sucking adult females. 3: 134-136. 1895.
- . Diptera from the lower Rio Grande or Tamaulipan region of Texas. I. 5: 171-178. 1897.

- . Locality and food plant catalogue of Mexican Coccidæ. 5: 178–190. 1897.
- . Diptera from the lower Rio Grande or Tamaulipan fauna of Texas. II. 6: 50–52. 1898.
- , AND T. D. A. COCKERELL. Coccidæ collected in Mexico by Messrs. Townsend and Koebele in 1897. 6: 165–180. 1898.
- . Foundation of some new genera and species of muscoid flies mainly on reproductive and early-stage characters. 20: 107–119. 1912.
- . On Trichiopoda Latreille, Polistomyia Townsend and Trichopodopsis new genus. 21: 147–148. 1913.
- . Notes on Exoristidæ (Tachinidæ auct.) and allies. 21: 301–305. 1913.
- . New Masiceratidæ and Dexiidæ from South America. 23: 61–68. 1915.
- . New western and southwestern Muscoidea. 23: 216–234. 1915.
- . The head and throat bots of American game animals. 25: 98–105. 1917.
- . The inside history of North American Myiology. 33: 1–10. 1925.
- . On the *Cephenemyia* mechanism and the daylight-day circuit of the earth by flight. 35: 245–252. 1927.
- . On the rare occurrence of certain American muscoid forms of striking character. 36: 83–93. 1928.
- . A system of abbreviations for use in muscoid description. 36: 169–174. 1928.
- . New genera and species of Old World Cestromuscoid flies. 40: 439–479. 1932.
- . Five new genera of New Zealand and Malayan Cestroidea. 42: 247–248. 1934.
- . Note on *Paratheresia* introduction in Louisiana. 47: 38. 1939.
- . Speed of *Cephenemyia*. 47: 43–46. 1939.
- . Book Notice. Fauna of British India, Diptera VI, Calliphoridae. By R. Senior-White, D. Aubertin and J. Smart. 48: 395–400. 1940.
- . An undescribed American *Cephenemyia*. 49: 161–163. 1941.
- TRAGER, WILLIAM. Ticks and disease transmission. 47: 95–96. 1939.
- TRAYER, JAY R. The ephemerid genus *Bætisca*. 39: 45–67. 1931.
- . *Neoclæon*, a new mayfly genus (Ephemerida). 40: 365–373. 1932.
- . Heptaginine mayflies of North America. 41: 105–125. 1933.
- TREAT, MARY. Some injurious insects of the orchard and garden. 1: 16–20. 1893.
- VANDUZEE, E. P. List of dragonflies taken near Buffalo, N. Y. 5: 87–91. 1897.
- . A preliminary review of the West Coast Cicadidæ. 23: 21–44. 1915.
- VANDYKE, EDWIN C. A new species of the genus *Anthophilax* Lec. (Col.). 25: 36–37. 1917.

- . A review of the species of the coleopterous genus *Silis* Latr., which are found in America north of Mexico. 26: 161-179. 1918.
- . A new genus and species of cave-dwelling Carabidæ (Coleoptera) from the United States. 26: 179-182. 1918.
- VERRILL, A. HYATT. Illustrations of the larvæ of five Dominican Sphingidæ. 15: 50. 1907.
- VIERECK, H. L., AND T. D. A. COCKERELL. The Philanthidæ of New Mexico. 12: 84-88. 1904.
- AND ———. The Philanthidæ of New Mexico. 12: 129-146. 1904.
- VINAL, STUART C. The respiratory system of the Carolina locust (*Dissosteira carolina* Linne). 27: 19-32. 1919.
- WADE, JOSEPH S. Some insects of Thoreau's writings. 35: 1-21. 1927.
- . Book review. Insect Pests of Farm, Garden and Orchard. By E. Dwight Sanderson. 40: 102-104. 1932.
- . Book notice. The Microscope. By Simon Henry Gage. 40: 389-390. 1932.
- . Book review. Jungle Bees and Wasps of Barro Colorado Island, Panama. By Phil Rau. 41: 296. 1933.
- . Book review. Medical Entomology. By William A. Riley and O. A. Johannsen. 41: 325-326. 1933.
- . Book review. William Bartram, Interpreter of the American Landscape. By N. Bryllion Fagin. 41: 393-395. 1933.
- . Book notice. Principles of Insect Morphology. By R. E. Snodgrass. 43: 343-344. 1935.
- . Book notice. The Microscope. By Simon Henry Gage. 45: 130. 1937.
- . Book notice. General Entomology. By Robert A. Wardle. 45: 138. 1937.
- . Book notice. Forest Insects: A Textbook for the Use of Students in Forest Schools, Colleges, and Universities, and for Forest Workers. By R. W. Doane, E. C. VanDyke, W. J. Chamberlin, and H. E. Burke. 45: 146-147. 1937.
- . Book notice. How to Know the Insects. By H. E. Jaques. 46: 10. 1938.
- . Book notice. Strange Insects and Their Stories. By A. Hyatt Verill. 46: 146. 1938.
- . Book notice. Marvels of the Insect World. By Jean Henri Fabre. 47: 10. 1939.
- . Book notice. Marvels of Insect Life: A Popular Account of Structure and Habit. By Edward Step. 47: 101-102. 1939.
- . Book notice. The Garden Dictionary, an Encyclopedia of Practical Horticulture, Garden Management and Landscape Design. By Norman Taylor. 47: 102-103. 1939.
- . A contribution to a bibliography from 1909 to 1936 of Henry David Thoreau. 47: 163-203. 1939.

- . Book notice. The Principles of Insect Physiology. By V. B. Wigglesworth. 48: 100. 1940.
- . Book notice. A German-English Science Dictionary for Students in the Agricultural, Biological and Physical Sciences. By Louis DeVries. 48: 101. 1940.
- . Book notice. The World of Insects. By Carl R. Duncan and Gayle Pickwell. 48: 101-102. 1940.
- . Book notice. Of Ants and Men. By Caryl Haskins. 48: 102. 1940.
- . Book notice. Insect Transmission of Plant Diseases. By Julian Gilbert Leach. 48: 403-404. 1940.
- WALTON, W. R. On the work of the late Daniel W. Coquillett and others. 22: 159-164. 1914.
- WATSON, FRANK E. Some miscellaneous local records of Lepidoptera. 23: 70-71. 1915.
- . Local records of Lepidoptera. 24: 155. 1916.
- . *Acronycta funeralis* Grote & Robinson. 25: 196. 1917.
- . Writings of W. D. Kearfott. 25: 238-239. 1917.
- . A large number of species of butterflies observed in one day's collecting. 26: 3-7. 1918.
- . Butterfly collecting for the season of 1918. 26: 228. 1918.
- . Miscellaneous collecting notes for 1919. 27: 342-343. 1919.
- . Miscellaneous notes and records of local Lepidoptera, with the description of a new form. 28: 227-235. 1920.
- . Miscellaneous notes and records of local Lepidoptera, and description of two new aberrations. 29: 168-173. 1921.
- . Miscellaneous notes and records of local Lepidoptera, and descriptions of two new aberrations. 30: 131-135. 1922.
- . *Eurymus eurytheme* f. *amphidusa* f. ♀ *pallida* Cockerell. 37: 48. 1929.
- . Miscellaneous notes. 40: 98. 1932.
- . Book notice. The Butterfly Book. New and Thoroughly Revised Edition. By W. J. Holland. 40: 100-102. 1932.
- . Doctor Ottolengui's collection of Phytometrinæ. 40: 438. 1932.
- WEBSTER, F. M. Some studies of the fecundity of the apple-leaf plant louse. *Aphis mali* Fitch. 1: 119-123. 1893.
- . Note on the development of *Deltocephalus inimicus* Say. 2: 146. 1894.
- . The earthworm as a tree-planter. 3: 139. 1895.
- . The probable origin, development and diffusion of North American species of the genus *Diabrotica*. 3: 158-166. 1895.
- . The probable origin, and diffusion of North American species of the genus *Diabrotica*. II. 4: 67-68. 1896.
- . Tenacity of life in adults of *Cryptorhynchus lapathi*. 5: 50. 1897.
- . The protective value of Action, volitional or otherwise, in "protective mimicry." 5: 67-77. 1897.

- . Notes on various species of Coleoptera. 5: 201-205. 1897.
- . Notes on the development of *Drasteria erechtea* (Cramer). 6: 27-32. 1898.
- . The southern corn-leaf beetle; a new insect pest of growing corn. 9: 127-132. 1901.
- . The price of dairy products as influencing the abundance of some insects. 3: 59-60. 1903.
- WEBSTER, R. L. The number of moults of the pear-slug, *Caliroa cerasi* Linné. 20: 125-130. 1912.
- , AND DAYTON STONER. The eggs and nymphal stages of the dusky leaf bug *Calocoris rapidus* Say. 22: 229-234. 1914.
- WEEKS, ARCHIBALD C. Ovipositing of *Vanessa antiopa*. 8: 181-182. 1900.
- . In memoriam: Rev. Dr. George D. Hulst. 8: 248-250. 1900.
- . An aberration of *Papilio philenor*. 9: 82-83. 1901.
- . Theory as to evolution of secondaries of moths of the genus *Catocala*. 11: 221-226. 1903.
- WEISS, HARRY B. *Eucactophagus graphipterus* Champion (Coleop.) in New Jersey. 24: 93. 1916.
- . The insect fauna of New Jersey greenhouses exclusive of the Coccidæ. 24: 144-150. 1916.
- . See DICKERSON, EDGAR L. 24: 302-306. 1916.
- , AND EDGAR L. DICKERSON. The European mole cricket, *Gryllo-talpa gryllotalpa* L., an introduced insect pest. 26: 18-23. 1918.
- . See NICOLAY, ALAN S. 26: 75-109. 1918.
- , AND EDGAR L. DICKERSON. Insects of the swamp rose-mallow, *Hibiscus moscheutos* L., in New Jersey. 27: 39-68. 1919.
- . See DICKERSON, E. L. 27: 129-132. 1919.
- . See NICOLAY, A. S. 27: 241. 1919.
- . See NICOLAY, ALAN S. 28: 136-150. 1920.
- , AND EDGAR L. DICKERSON. Notes on milkweed insects in New Jersey. 29: 123-145. 1921.
- , AND ERDMAN WEST. The insects and plants of a moist woods on the Piedmont Plain of New Jersey. 30: 169-191. 1922.
- . See NICOLAY, ALAN S. 31: 59-76. 1923.
- . Parasitic Hymenoptera from New Jersey. 32: 73-74. 1924.
- . The grape leafhopper infesting sycamore. 32: 114. 1924.
- . Galls of *Apion hibisci* Fall (Coleoptera). 32: 126. 1924.
- . The colors of bugs. 32: 163. 1924.
- , AND ERDMAN WEST. The insects and plants of a salt marsh on the coastal plain of New Jersey. 32: 93-104. 1924.
- . The olfactory sense of the cabbage butterfly. 32: 166. 1924.
- . Ultraviolet and flower-visiting habits of insects. 32: 195. 1924.
- , AND ERDMAN WEST. Notes on the rush weevil, *Limnobaris rectirostris* Lec., in New Jersey. 32: 196-197. 1924.
- . The acidities within the alimentary tracts of insects. 32: 220. 1924.

- . Entomology in the diary of Samuel Pepys. 33: 59. 1925.
- . Statistical method and entomology. 33: 56. 1925.
- , AND ERDMAN WEST. Coleoptera in ocean drift. 33: 60. 1925.
- . Water beetles. 33: 113. 1925.
- . John Bunche's droll account of a battle between a flea and a louse. 33: 114-115. 1925.
- . Entomology in Zoologica. 33: 169. 1925.
- . Butterfly collecting by Shah Abbas the Great. 33: 187. 1925.
- . The insects of the Panchatantra. 33: 223. 1925.
- . Cockroaches for tetanus and indigestion. 33: 232. 1925.
- . Distributional records of Comstock's mealy bug in New Jersey. 33: 237. 1925.
- . The bee, the wasp, the ant, insects of the Physiologus. 33: 238-242. 1925.
- . Book review. Manual of Injurious Insects. By Glenn W. Herrick. 33: 246. 1925.
- . Samuel Purchas and his "Theatre of Politicall Flying Insects." 34: 71-77. 1926.
- . The entomology of Hakluyt's "Voyages," II. 34: 190. 1926.
- . Lepidopterous larvæ as aids in magic. 34: 208. 1926.
- . The insects of the Yü Li Ch'ao Chuan. 34: 216. 1926.
- . Book review. Insects Injurious to the Household and Annoying to Man. By Glenn W. Herrick. 34: 217. 1926.
- . Book review. Applied Entomology. By H. T. Fernald. 34: 217-218. 1926.
- . The entomology of Hakluyt's "Voyages," III. 34: 218. 1926.
- . Entomological observations of Captain Cook. 34: 222. 1926.
- . Peter Pindar and the entomology of his poems. 34: 231-240. 1926.
- . Insects and homeopathic magic. 34: 342. 1926.
- . The entomology of Hakluyt's "Voyages," I. 34: 354. 1926.
- . The entomology of Pliny the elder. 34: 355-359. 1926.
- . Book notice. Insects of Western North America. By E. O. Essig. 34: 373. 1926.
- . Propitiation of insects. 35: 50. 1927.
- . Book notice. Insects and Greek Poetry. By Lafcadio Hearn. 35: 64. 1927.
- . Book notice. The Natural History of Ants. By René Antoine Ferchault de Réaumur. 35: 64. 1927.
- . Sir John Hill's "Decade of Curious Insects." 35: 83-99. 1927.
- . Four encyclopedic entomologists of the Renaissance. 35: 193-207. 1927.
- . Insects as precursors of the plague. 35: 209-211. 1927.
- . Pierre Eugene du Simitiere, early naturalist. 35: 211. 1927.
- , AND GRACE M. ZIEGLER. The communism of Thomas Say. 35: 231-239. 1927.

- . James Petiver's *Gazophylacii*. 35: 411-414. 1927.
- . Alexander Neckam, clergyman and naturalist of the twelfth century. 35: 417-418. 1927.
- , AND GRACE M. ZIEGLER. The entomology of Hooke and Leeuwenhoek. 36: 95-104. 1928.
- . The entomology of the hieroglyphics of Horapollo. 36: 119-122. 1928.
- . The entomology of Doctor Brickell's "Natural History of North Carolina." 36: 185-188. 1928.
- . Some early American papers on entomology. 36: 293-297. 1928.
- , AND GRACE M. ZIEGLER. Notes on some wood engravers of North American insects. 36: 421-433. 1928.
- . The entomology of Martin Lister, physician, naturalist and antiquarian. 37: 43-48. 1929.
- . Book notice. *Elementary Lessons on Insects*. By James G. Needham. 37: 88. 1929.
- . The entomology of Aristotle. 37: 101-109. 1929.
- . A note on veterinary entomology of the sixteenth century. 37: 159-161. 1929.
- . Book notice. *Insects and Their Control*. By Andrew Wilson. 37: 163. 1929.
- . Book notice. *A Handbook of the Dragonflies of North America*. By James G. Needham and Hortense Butler Heywood. 37: 164-165. 1929.
- . The entomology of the "Menagier de Paris." 37: 421-423. 1929.
- , AND GRACE M. ZIEGLER. More notes on the wood engravers of North American insects. 37: 439-440. 1929.
- . Olaus Magnus, credulous zoologist, and archbishop of the sixteenth century. 38: 35-37. 1930.
- . John Buncke's panegyric on the Spanish fly. 38: 49-51. 1930.
- . Insects and witchcraft. 38: 127-133. 1930.
- . More about Doctor Brickell's "Natural History of North Carolina." 38: 313-315. 1930.
- . John Southall's "Treatise of Buggs." 39: 253-260. 1931.
- , AND GRACE M. ZIEGLER. Another miniature portrait of Thomas Say and other Say notes. 39: 287-289. 1931.
- . John Pointer's collection of insects. 40: 95-97. 1932.
- . Book notice. *My Nature Nook*. By W. S. Blatchley. 40: 99. 1932.
- . See NICOLAY, ALAN S. 40: 341-355. 1932.
- . The entomology of the "Orbis Pictus" of John Amos Comenius together with notes on several early American entomological juveniles. 40: 511-518. 1932.
- . Book notice. *Medical Entomology*. By Robert Matheson. 40: 563-564. 1932.

- , AND GRACE M. ZIEGLER. Mrs. Thomas Say. 41: 547-555. 1933.
- . See NICOLAY, ALAN S. 42: 193-213. 1934.
- . Book notice. Field Book of Insects. By Frank E. Lutz. 43: 30. 1935.
- . Book notice. A Manual of Entomological Equipment and Methods. Part I. 43: 50. 1935.
- . Book notice. Lac and the Indian Lac Research Institute. By Dorothy Morris, P. M. Glover, and R. W. Aldis. 43: 253-254. 1935.
- . Book notice. A Contribution to a Bibliography of the Described Immature Stages of North American Coleoptera. By J. S. Wade. 43: 426. 1935.
- . Book notice. The Biology of Mayflies With a Systematic Account of North American Species. 44: 10. 1936.
- . Book notice. Ancient Artizans. The Wonders of the Insect World. By Stuart Ward Frost. 44: 124. 1936.
- . Book notice. The Biological Control of Insects with a Chapter on Weed Control. 45: 108. 1937.
- . Book notice. Culture Methods for Invertebrate Animals. By Committee of A. A. A. S. 45: 114. 1937.
- . Book notice. A Manual of Entomological Equipment and Methods, Part II. By Alvah Peterson. 45: 135. 1937.
- . The elusive John Thorley, author of "Melisseologia, or the Female Monarchy." 45: 148. 1937.
- . The criminal prosecution of insects. 45: 251-258. 1937.
- . Book notice. Über entomologische Sammlungen. By Walther Horn, Ilse Kahle, R. Korschefsky. 45: 310. 1937.
- . Book notice. Bugs, Birds and Blizzards in the Yellowstone. By Harlow B. Mills. 45: 334. 1937.
- . Book notice. The Sacred Bee in Ancient Times and Folklore. By Hilda M. Ransome. 45: 334. 1937.
- . Book notice. A Glossary of Entomology. By J. R. de la Torre-Bueno. 45: 386. 1937.
- . The vermin killer: 1775 model. 45: 403-407. 1937.
- . Some historical material relating to Professor S. S. Haldeman. 46: 45-48. 1938.
- . Book notice. Source Book of Biological Terms. By Axel Leonard Melander. 46: 30. 1938.
- . Book notice. Lac Cultivation in India. By P. M. Glover. 46: 154. 1938.
- . An overlooked title by C. V. Riley on the Colorado potato beetle. 46: 194. 1938.
- . Entomology and nursery rhymes. 46: 195-201. 1938.
- . Paper from wasps' nests. 46: 244. 1938.
- . Thomas Martyn's "English Entomologist." 46: 321-325. 1938.
- . Book notice. Biological Survey of the Mount Desert Region. Part VI. The Insect Fauna. By William Procter. 47: 56. 1939.

- . Book notice. The Fulgorina of Barro Colorado and other parts of Panama. By Z. P. Metcalf. 47: 82. 1939.
- . Thomas Say's home in New Harmony. 47: 104. 1939.
- . Insect food habit ratios of North Carolina, and Mount Desert Island, Maine. 47: 155-157. 1939.
- . Book notice. Insect People. By Eleanor King and Wellmer Pessels. Insect Allies. By Eleanor King and Wellmer Pessels. Garden Creatures. By Eleanor King and Wellmer Pessels. 47: 204-205. 1939.
- . The entomology of Thomas Boreman's popular natural histories. 47: 213-217. 1939.
- . Book notice. The History of Entomology at the Mass. Agric. College, 1867-1930. By Henry T. Fernald. 47: 218. 1939.
- . An early entomological book for children. 47: 303-306. 1939.
- . Book notice. Nomenclator Zoologicus. Ed. by Sheffield Airey Neave. 47: 350. 1939.
- . Thomas Boreman again. 47: 351-352. 1939.
- . Book notice. Destructive and Useful Insects. By C. L. Metcalf and W. P. Flint. 47: 353-354. 1939.
- . Book notice. Working with Nature. By Eleanor King and Wellmer Pessels. 47: 354. 1939.
- . Book notice. Blatchleyana. II. By W. S. Blatchley. 47: 355. 1939.
- . A laboratory guide in entomology. By Robert Matheson. 47: 355. 1939.
- . Book notice. Fleas of Eastern United States. By Irving Fox. 48: 32. 1940.
- . The death-feints of *Sitophilus granarius* Linn., and *Sitophilus oryzae* Linn. 48: 37-46. 1940.
- . Book notice. Three papers on fleas by C. Andresen Hubbard. 48: 126. 1940.
- . Money losses due to destructive insects. 48: 195-199. 1940.
- . The death-feint of *Trox unistriatus* Beauv. 48: 303-304. 1940.
- . Book notice. Introducing Insects, a book for beginners. By James Needham. 48: 393. 1940.
- . Book notice. An Introduction to Entomology. By John Henry Comstock. 48: 394. 1940.
- , FRANK A. SORACI, AND E. E. MCCOY, JR. Notes on the reactions of certain insects to different wave-lengths of light. 49: 1-20. 1941.
- . Book notice. The Problems of Insect Study. By Paul Knight. 49: 76. 1941.
- . Three papers on fleas by C. Andresen Hubbard. 49: 118. 1941.
- . Book notice. Plant Galls and Gall Makers. By E. P. Felt. 49: 119-120. 1941.
- . Book notice. Entomophagous Insects. By Curtis P. Clausen. 49: 120-121. 1941.

- . Book notice. Embryology of Insects and Myriapods. By Oskar A. Johannsen and Ferdinand H. Butt. 49: 122. 1941.
- , FRANK A. SORACI, AND E. E. MCCOY, JR. Additional notes on the behavior of certain insects to different wave-lengths of light. 49: 149-159. 1941.
- . Book notice. A Lot of Insects. By Frank E. Lutz. 49: 366. 1941.
- , FRANK A. SORACI, AND E. E. MCCOY, JR. The behavior of certain insects to various wave lengths of light. 50: 1-35. 1942.
- . Book notice. College Entomology. By E. O. Essig. 50: 192. 1942.
- . Book notice. General Entomology. By S. W. Frost. 50: 242. 1942.
- . Book notice. Near Horizons, The Story of an Insect Garden. By Edwin Way Teale. 50: 334. 1942.
- WEST, ERDMAN. See WEISS, HARRY B. 30: 169-191. 1922.
- . See WEISS, HARRY B. 32: 93-104. 1924.
- . See WEISS, HARRY B. 32: 196-197. 1924.
- . See WEISS, HARRY B. 33: 60. 1925.
- . Records of fungous beetles in Florida. 35: 63. 1927.
- WEST, LUTHER. New Phasiidæ and Tachinidæ from New York state. 33: 121-135. 1925.
- WICKHAM, H. F. Preliminary hand-book of the Coleoptera of North Eastern America. 3: 180-190. 1895.
- . Preliminary handbook of the Coleoptera of Northeastern America. 4: 33-49. 1896.
- . Description of the larvæ of some heteromorous and rhynchophorus beetles. 4: 118-124. 1896.
- . The North American species of *Cotalpa*. 13: 1-4. 1905.
- WILLIAMS, FRANCIS X. Notes on the life-history of some North American Lampyridæ. 25: 11-33. 1917.
- WILLIAMS, INEZ W. The external morphology of the primitive tanyderid dipteran *Protoplasa fitchii* O.S. with notes on the other Tanyderidæ. 41: 1-35. 1933.
- . The comparative morphology of the mouthparts of the order Coleoptera treated from the standpoint of phylogeny. 46: 245-289. 1938.
- WILLISTON, S. W. Dipterological notes (Diptera). 15: 1-2. 1907.
- WILSON, J. W. Coleoptera and Diptera collected from a New Jersey sheep pasture. 40: 77-93. 1932.
- WILSON, SLOAN JACOB. The anatomy of *Chrysochus auratus* Fab. (Coleoptera: Chrysomelidæ) with an extended discussion of the wing venation. 42: 65-85. 1934.
- WINTERSTEINER, FRED. Environment of Hydrophilidæ. 21: 54-55. 1913.
- WHELAN, DON B. Relocation of the type locality of *Porosagrotis orthogonia* MORR. 46: 22. 1938.

- WHEELER, WILLIAM MORTON. Studies on myrmecophiles. I. *Cremastochilus*. 16: 68-79. 1908.
- . Studies on myrmecophiles. II. *Hetærius*. 16: 135-143. 1908.
- . Studies on myrmecophiles. III. *Microdon*. 16: 202-213. 1908.
- . A small collection of ants from Victoria, Australia. 17: 25-29. 1909.
- . A decade of North American Formicidæ. 17: 77-90. 1909.
- . A new honey ant from California. 17: 98-99. 1909.
- . Observations on some European ants. 17: 172-187. 1909.
- . The North American forms of *Camponotus fallax* Nylander. 18: 216-222. 1910.
- . A new *Camponotus* from California. 19: 96-98. 1911.
- . Notes on the myrmecophilous beetles of the genus *Xenodusa* with a description of the larva of *X. cava* Leconte. 19: 163-169. 1911.
- . An ant-nest coccinellid* (*Brachyacantha quadripunctata* Mels.) 19: 169-174. 1911.
- . *Miastor* larvæ in Connecticut. 19: 201. 1911.
- . Descriptions of some new fungus-growing ants from Texas, with Mr. C. G. Hartman's observations on their habits. 19: 245-255. 1911.
- . *Lasius (Acanthomyops) claviger* in Tahiti. 19: 262. 1911.
- . A desert cockroach. 19: 262-263. 1911.
- . The ants of Guam. 20: 44-48. 1912.
- . Notes on a mistletoe ant. 20: 130-134. 1912.
- . Ants collected by W. M. Mann in the state of Hidalgo, Mexico. 22: 37-61. 1914.
- . Notes on some slave-raids of the western Amazon ant (*Polyergus breviceps* Emery). 24: 107-118. 1916.
- . Ants collected in British Guiana by Mr. C. William Beebe. 26: 23-28. 1918.
- . Philippine ants of the genus *Enictus* with descriptions of the females of two species. 38: 193-212. 1930.
- . A list of the ants of Florida with descriptions of new forms. 40: 1-17. 1932.
- . Ants of the genus *Acropyga* Roger, with description of a new species. 43: 321-330. 1935.
- WHITE, G. F. See HAWLEY, I. M. 43: 405-412. 1935.
- WHITE, RALPH T. The relation of ants to the Japanese beetle and its established parasites. 48: 85-99. 1940.
- WOLCOTT, A. B. The male of *Cymatodera horni* (Cleridæ; Col.). 30: 191-194. 1922.
- WOODRUFF, LAURENCE C. An analysis of insect growth curves. 47: 47-55. 1939.
- WOODRUFF, LEWIS B. *Neuronia pardalis* Walker near New York City. 21: 163. 1913.
- . The nymph of *Ophiogomphus johannus* Needham. 22: 61-63. 1914.

- . Some dragonflies of a Connecticut brook. **22**: 154–159. 1914.
- . A new membracid from New York (Homop.) **23**: 44–47. 1915.
- , AND WILLIAM T. DAVIS. Notes on Malachidæ. **24**: 153–154. 1916.
- . The occurrence of *Archips infumatana* Zell., in the eastern United States. **24**: 153. 1916.
- . A note on *Cremastochilus*. **26**: 110–111. 1918.
- . Fall notes on some Alabama butterflies. **27**: 159–161. 1919.
- . A review of our local species of the membracid genus *Ophiderma* Fairm. (Hemip.—Homop.). **27**: 249–260. 1919.
- . Further notes on the membracid genus *Ophiderma* Fairm. (Hemip.—Homop.). **28**: 212–214. 1920.
- . Lathridiidæ in the heart of New York City (Coleop.). **29**: 178–179. 1921.
- . A new species of *Polydrusus* Germar (Coleop.). **31**: 155–157. 1923.
- . Supplementary notes on *Ophiderma* Fairm. (Hemip.—Homop.). **31**: 188–190. 1923.
- . Critical observations in the membracid genus *Cyrtolobus* Goding (Hemip.—Homop.). **32**: 1–62. 1924.
- WRIGHT, W. S. Notes on the life history of *Datana robusta* Strecker. **16**: 1–6. 1908.
- . Annotated list of the diurnal Lepidoptera of San Diego County, California, based on collections during 1906 and 1907. **16**: 153–167. 1908.
- . Notes and descriptions of Geometridæ. **25**: 123–125. 1917.
- ZABRISKIE, J. L. Notes on some parasites of *Vespa*. **2**: 81–86. 1894.
- . Egg-capsules of *Chrysochus auratus* (Fab.). **3**: 192. 1895.
- ZIEGLER, GRACE M. See WEISS, HARRY B. **35**: 231–239. 1927.
- . See WEISS, HARRY B. **36**: 95–104. 1928.
- . See WEISS, HARRY B. **36**: 421–433. 1928.
- . See WEISS, HARRY B. **37**: 439–440. 1929.
- . See WEISS, HARRY B. **39**: 287–289. 1931.
- . See WEISS, HARRY B. **41**: 547–555. 1933.

GENERAL SUBJECT INDEX

Volumes 1 to 50

- Abbot, John, of Georgia, 22, 65
- Abdominal, terminal, structures, of insects, 37, 453
- Aberration, of *Papilio philenor*, 9, 82
- Acalypteræ from Alabama, 26, 34
- Acantholyda erythrocephala* in New Jersey, 46, 326, 444
New York, 46, 438
- Acarians from sphagnum swamp, 3, 128
- Acarina
Galumnas of N. E. U. S., 42, 87
new, 3, 128; 12, 47
Oribatoidea, studies of, 43, 311
Zetes species of N. E. U. S., 43, 51
- Acentropus niveus* in America, 46, 338
- Acmaeodera*
new species of, 7, 1
synopsis of, 7, 1
- Acrididæ, taxonomic value of internal structure in, 44, 345
- Acridian, tropical type of, 8, 213
- Acronycta connecta*, description of larvæ, 7, 253
- Acropyga*
ants of genus, 43, 321
berwicki, new species, 43, 325
- Action, protective value of, 5, 67
- Adalia bipunctata*, 20, 293
- Adirondacks, new gall midges of, 27, 277
- Adoneta bicaudata*
description of larvæ, 12, 43
new species, 12, 43
- Adopæa lineola*, 39, 503
- Ædes smithii*, life history of, 10, 10
- Ænictus*, new species of, 38, 193
- Aeronautic spiders, 44, 43
- Africa
Coccinellidæ from, 7, 163
distribution of ants in, 30, 202
Lycænidæ of, 28, 242
Membracidæ of, 40, 205
Myrmeleonidæ from, 21, 149
new Sesiidæ from, 7, 170
- African
membracid, new, 42, 339
west, new butterflies, 2, 77
- Agia eborata*, note on, 12, 46
- Aglais j-album*, 29, 57
watsoni, new subspecies, 32, 109
- Agromyzinæ, synopsis of, 21, 219
- Agronoma*, type of, 4, 85
- Agroperina*
new species of, 18, 137
notes on North American species, 18, 137
- Air pressure, effect on cricket, 35, 307
- Akhurst, John, notice of death, 10, 171
- Alabama
Acalypteræ from, 26, 34
argillacea, migration of, 19, 259
butterflies, fall notes on, 27, 159
notes on Hesperiidæ from, 34, 269
- Alaska
new *Brenthis* from, 48, 413
new Linyphiidæ from, 29, 35
new sawflies from, 31, 163
- Albinism, 16, 240
- Aldrich, estimate of, by Townsend, 33, 1
- Aldrovandi, Ulysses, 35, 197
- Aleurodes*
aureocincta, new species, 5, 42
ruborum, new species on rubus, 5, 96

- Aleurodidæ, new species from New Mexico, 4, 207
 Alleculidæ, notes on, 24, 142
 Amaranth euryculio, 32, 119
Amblycorypha iselyi, new species, 15, 50
 American
 cicadas, notes on, 43, 173
 Holcocephala, synopsis of, 46, 11
 spiders, studies in, 46, 55
Ameromyzobia aphelinoides, new genera and species from West Indies, 24, 232
Ammodonotus fossor, on Staten Island, 25, 126
Amphicerus, new species of, 6, 68
Anacamptis innocuella, 26, 111; 27, 228
Anæa
 continental relationships of, 49, 301
 new species, 49, 301
Anaphoidea
 calendæ, parasite of weevil eggs, 39, 171
 sordidata, new genus and species, 17, 169
 Anatomy of
 carpenter ant, 49, 294
 Chrysochus auratus, 42, 65
 Peranabrus scabriocollis, 11, 183
 Pyrota mylabrina, 43, 1
Anax junius captures *Pantela flavescens*, 33, 189
Anchomenus decorus ab. *syracusensis*, new aberration, 34, 247
Andrena, from New Jersey, 9, 132
Anisota consularis, new species, 4, 166
Anomala
 new species of, 14, 1
 orientalis, larval movement through soil, 43, 413
 Ant
 lion, new, 1, 76
 mistletoe, 20, 130
 -nest coccinellid, 19, 169
 Anthidiinæ
 new species, varieties, records, 36, 369
 bees
 of California, 45, 377
 from Oregon, 38, 9
Anthidium
 polingæ, new species, 39, 135
 sculleni, new species, 38, 11
 Anthomyid genera, types of, 9, 134
Anthonomus
 notes and new species, 1, 12
 scutellaris, on beach plum, 21, 160
Anthophilax
 nigrolineatus, new species, 25, 36
 synopsis of North American, 25, 38
Anthrax edwardsii, new from California, 2, 102
Anthrenus fasciatus, 19, 200
 Antilles
 Anæa of, 49, 301
 Membracidæ of, 35, 183
 Nymphalidæ of, 50, 283
 Ants
 civil disturbances in communities of, 49, 225
 collected in British Guiana, 26, 23
 collected by W. M. Mann, in Mexico, 22, 37
 colony foundation of Ponerine ants, 49, 211
 communal disaffection in, 49, 199
 Cremastochilus and, 26, 110
 distribution in Africa, 30, 302
 European, observations on, 17, 172
 genus *Acropyga*, 43, 321
 Guam, 22, 44
 harvester, behavior of, 50, 291
 list of Florida species, 40, 1
 list of South Carolina, 42, 353
 Lycænid caterpillars and, 20, 31
 Mexico, 22, 37

- new forms from Florida, 40, 1
 new fungus-growing from Texas, 19, 245
 new species from British Guiana, 26, 23
 new species from Mexico, 22, 37
 relation to Japanese beetle and its parasites, 48, 85
 slave-making raids of, 36, 323
 Texas, 44, 155
 Victoria, Australia, 17, 25
Apantesis nais, spiral segmentation in, 40, 167
Apatela, distribution of, 4, 81
Apatides, new species of, 6, 70
 Aphid genus *Pseudoepameibaphis*, 46, 217
 Aphids
 additions to New York list, 44, 177
 honey-dew of attractive to moths and roaches, 26, 227
 notes on New York species, 44, 177
Aphis mali, fecundity of, 1, 119
 Aphidæ, new species from Mexico, 4, 204
Apion
 hibisci, galls of, 32, 126
 new species of American, 26, 218
Aplopus mayeri, new species, 13, 83
 Apoidea
 new genera and species, 50, 273
 new species from California, 49, 123
 Apparatus, for
 extracting tarantula poison, 46, 41
 study of insect metabolism and temperature, 37, 25
 testing insect behavior to light, 49, 1; 50, 1
 Appendages, abdominal, of mosquitoes, 13, 53, 185
 Appleleaf aphid, fecundity of, 1, 119
 Apple, new case-borer on, from China, 12, 45
- Apterygotan insects
 phylogenetic study of, 25, 225
 relationships of, 24, 267
 Aquatic
 Coleoptera, 21, 32
 Hemiptera, 21, 29
 Arachnida, associated with fungi, 47, 15
Arachnocoris albomaculatus, biology of, 33, 136
Aræocerus fascicularis, feeding on strychnine, 14, 116
 Araneæ, list of, from New Hampshire, 6, 247
Aranearum, new species of, 42, 1
Araneida, new genera and species, 12, 100
Arbelidæ, new species of, 9, 75
Archips infumatana in Eastern U. S., 24, 153
Arctia
 intermedia, note on larva, 9, 25
 notes on larvæ of, 8, 34
 Arctians, study of larvæ of, 5, 130
 Arctiidæ
 contribution to knowledge of, 10, 1, 82
 new species of, 15, 105; 18, 149
 Argentine Republic
 hemileucids from, 6, 150
 Mallophaga from, 14, 45
Argynnis
 aphrodite
 distribution of, 21, 162
 larva of, 15, 56
 atlantis, distribution of, 21, 162
Aristotelia, *rubidella* group of, 40, 423
 Aristotle, entomology of, 37, 101
 Arizona
 Lampyridæ from, 16, 61
 new cicada from, 23, 239; 34, 177
 new cynipid from, 16, 45
 new Geometridæ from, 14, 130
Arrhenophagus, new species of, 23, 241

- Arthromacro robinsoni*, new species, 22, 286
- Arthropoda, associated with fungi, 47, 14
- Ash leaf bug, life history of, 24, 302
- Asia
- Minor, new localities in, for *Par-nassius apollo*, 38, 468
 - new gall midges from, 23, 173
 - new *Tiphia* from, 43, 395
- Asiatic
- garden beetle, electric light traps for, 44, 261
 - Tiphia*, 45, 269
- Asilidæ
- Diogmites*, new species of, 44, 225
 - genus *Stenopogon* in U. S., 45, 291
 - new species of, 24, 65; 46, 179
 - new species of *Mallophora*, 49, 269
 - revision of genus *Taracticus*, 46, 179
 - synopsis of *Holcocephala*, 46, 11
- Asilus*
- caopillogus*, generic position of, 32, 73
 - sericeus*, 32, 219
- Astenophylax argus*, notes on, 23, 57
- Aster, insects on heads of, 42, 319
- Asnyapta hopkinsi*, new gall midge, 43, 48
- Atta septentrionalis* on Long Island, 22, 64
- Atenius*,
- new species of, 38, 93
 - strigatus* and allied species, 38, 93
- Atomacera*, larva of, 8, 26
- Atrytone logan*, in Conn., 48, 258
- Attacus splendidus*, misidentified, 3, 191
- Atteva punctella*, 40, 98
- Attidæ, of Yale Dominica expedition, 22, 329
- Atymna*, new species of, 46, 235
- Atymnina*, 46, 240
- Auchenomus minor*, new, from Philip-pines, 12, 108
- Aulax chrysothamui*, new species, 16, 45
- Australia
- ants from, 17, 25
 - bees from, in Berlin Museum, 18, 98
 - new bees from, 18, 98
 - new Membracidæ from, 34, 243
- Australian
- Lepidoptera, catalogue of de-scribed transformations, 9, 147
 - Membracidæ, synonymy of, 34, 207
- Autographa*, new species of, 10, 64
- Automeris io fuscus*, new variety, 15, 131
- Autoserica castanea*, 44, 261
- Babylon, N. Y., Tabanidæ at, 47, 311
- Bacunculus blatchleyi*, new from Indiana, 13, 212
- Bætisca*
- new species of, 39, 45
 - study of, 39, 45
- Baiting, for beetles, 20, 194
- Balaninus quercus*, 22, 332
- Barnes, Wm., notice of death of, 39, 265
- Bat, nycteribid from, 1, 79
- Batrisodes globosus*, food of, 40, 377
- Beach-grasshopper, distribution of, 37, 31
- Beauveria bassiana*
- a fungus disease of Japanese beetle, 48, 401
 - method for obtaining spores of, 49, 205
- Bee-killing robber flies, 38, 159
- Beebe, C. William, ants collected by, 26, 23

Bees

- Anthidiine, from Oregon, 38, 9
are they attracted to clover blossoms by odor? 39, 273
Australian in Berlin Museum, 18, 98
British Guiana, new species, 44, 249
collected by Charles Darwin, 40, 519
collecting in southern Texas, 25, 187
Colorado, 27, 298
digger, notes on, 9, 29, 52
Dieunomia, 43, 201
honey, used in testing insecticides, 45, 341
new, from Australia, 18, 98
new, from Ecuador and Peru, 22, 306
new species from Colorado, 37, 441
records of, 25, 135
taxonomic observations on, 50, 273

Beetles,

- carion, feeding habits of, 35, 77
collected in Virginia, 26, 30
development of wings in, 12, 237
from Florida, 24, 92
fungous, in Florida, 35, 63
Indiana, Blatchley's, 19, 126
myrmecophilous, 19, 163

Behavior of Australian Thynnidae, 43, 19

Belocephalus,

- new species of, 22, 191
new species from Florida, 20, 122

Belonuchus schaefferi, 41, 545*Belostoma flumineum*, habits of 19, 99

Bembicine wasps, new, 9, 83

Bembidion tuberculatum, new species, 37, 157*Bembidium*

- lengi*, new species, 27, 98
notes and new species, 27, 292

Bembidula quadrifasciata, 34, 89

Benjamin, Foster H., 44, 352

Berytidae, new species of, 27, 79

Beyer, Gustav, biography of, 32, 165

Bezzia

- new species of, 22, 283
synopsis of North American, 22, 281

Bibliographies, entomological, 32, 206

Bibliography of Henry David Thoreau, 47, 163

Bidens borer, biology of, 40, 503

Bisulphide, use of, 2, 191

Black widow spider, food of, 42, 449; 46, 191

Blanchard, Frederick, 48, 34

obituary of, 21, 69

Blattella germanica, growth curves for, 47, 51

Blennocampinae, new species, 6, 121

Bloodworms, feeding and rearing of, 21, 305

Blow fly studies, 21, 274

Blueberry

stem

borer, 37, 67

galls, 35, 253

tip worm, life history of, 34, 82

Boatman, life history of, 25, 112

Boisduval, Jean Baptiste Alphonse, notes on, 22, 178

Bolitophila, new species of 45, 389

Bombyces

American, revision of, 2, 57

new species and varieties, 1, 29

revision of, 1, 97, 153; 2, 1, 109, 147

Bombycine

caterpillars, early stages of, 3, 175

moths

classification of, 1, 6

- new generic types of, 11, 244
- Bombycoid moths from New Mexico, 2, 105
- Book notices, 11, 250; 13, 188, 216, 217; 14, 52, 53, 57, 109, 110, 111, 167, 168, 232; 15, 113, 114, 239; 17, 39; 25, 81; 26, 112; 27, 102; 28, 239, 240; 29, 179; 30, 135; 33, 162, 246; 34, 217, 265, 374; 35, 64, 415; 37, 88, 163, 164, 451; 38, 469; 39, 261; 40, 99, 100, 102, 389, 563; 41, 296, 325, 393; 43, 30, 50, 253, 343, 426; 44, 10, 124; 45, 108, 114, 130, 135, 138, 146, 310, 334, 386; 46, 10, 20, 146, 154, 439; 47, 10, 48, 56, 82, 101, 102, 204, 218, 350, 354, 355, 363; 48, 100, 101, 102, 126, 393, 403; 49, 76, 118, 119, 120; 50, 36, 192, 242, 334
- Books on entomology, value of, 44, 353
- Boreaphilus americanus*, new genus and species, 26, 182
- Boreman, Thomas, natural histories of, 47, 213
- Boreconia aguadilla*, new genera and species, 36, 31
- Boring larvæ, of Noctuidæ, 10, 214
- Bostrichus*, new species of, 6, 72
- Bot-flies, of game animals, 25, 98
- Bot-fly reared in F. R. Swift's leg, 35, 102
- Bothroponera soror*, method of colony foundation of, 49, 211
- Botis toralis*, note on, 15, 104
- Box-mites, of N. E. United States, 46, 109
- Brachyacantha quadripunctata*, in ant-nest, 19, 169
- Brachycentrus nigrisoma*, egg laying and larval habits of, 27, 154
- Brachypremna*
new species of, 20, 231
revision of, 20, 225
- Brachys*
larva in oak leaf, 20, 193
review of, 31, 59
- Brachypterolus pulicarius* in America, 36, 35
- Braconidæ, morphology of *Cæloides dendroctoni*, 42, 297
- Bradford, George Dexter, obituary, 2, 192
- Brazil
mosquitoes of, 14, 57
new *Ceratopogon* from, 12, 35
- Brenthidæ, notes on, 12, 168
- Brenthis*
aphirape denali, new subspecies from Alaska, 48, 413
notes on, 45, 311
- Brickell, John, "Natural History of N. Carolina," 36, 185
- British
Columbia
Odonata from, 23, 153
Coccinellidæ of, 43, 331
- Guiana
ants collected in, 26, 23
new bees from, 44, 249
- Brochymena*, 49, 113
- Brooklyn Entomological Society, list of members, 12, 193; 13, 52, 102
- Brotis vulneraria*, notes on, 1, 91
- Bruchophagus sophoræ*, new species, 37, 13
- Bruchus*, differential incidence of, 23, 242
- Bryaxis abdominalis*, notes on, 2, 143
- Buena*, notes on, 17, 74
- Buffalo, N. Y., list of dragonflies from, 5, 87
- Bugs, colors of, 32, 163
- Bunænine African moths, new genera of, 10, 100
- Buncle, John
account of battle between flea and louse, 33, 114
on the Spanish fly, 38, 49

Buprestidæ

additions and corrections to
Leng list of Coleoptera, 29,
173

California, 10, 172

new species of, 32, 186

new from California, 46, 445

Oregon, 32, 186

Buprestis

additions to review of, 27, 241

confluens, notes on, 30, 66

review of, in North America, 26,
75

Bureau of entomology, earliest, 47,
307

Burrows, of 17-year locust, 3, 33

Butterflies

abundance of, 26, 3

both sides of, 4, 20

California, list, 15, 37

classification of, 5, 151

collecting, notes on, 27, 342

Colorado, 42, 155

habits of So. American equa-
torial, 39, 167

New Jersey, 48, 47

new West African, 2, 77

notes on

Alabama, 27, 159

Ecuadorian, 50, 123, 309

Staten Island, 26, 48

list of, 1, 43

Butterfly collecting, 27, 228

by Shah Abbas the Great, 33,
187

Cabbage butterfly, olfactory sense of,
32, 166

Cabinet pests, use of coal tar creosote against, 17, 73

Cacama, new species of, 27, 68

Caddice-fly, habits of, 27, 154

Caddisflies, new species from New
York, 34, 79

Calder, Edwin E., notice of death
of, 37, 176

California

Anthidiine bees of, 45, 377

butterflies, 15, 37

early stages of Lepidoptera
from, 7, 209

list of diurnal Lepidoptera, 16,
153

Lycænidae of, 22, 33

new

Anthrax from, 2, 102

Buprestidæ from, 46, 445

cicadas from, 23, 11; 34,
177

coccidæ from, 11, 61

gall-fly parasite from, 20,
274

phalangids from, 3, 66

spiders from, 4, 88

Stelis from, 49, 123

Caliroa cerasi, moults of, 20, 125

Callidium, blue, notes on, 25, 183

Calligrapha

alni, new species of, 36, 290

amelia confluens, new variety,
36, 290

Callimomid genera phylogeny of, 46,
355

Callimorpha, notes on, 3, 59; 30, 72

Callosoma calidum, 20, 292

Callosamia

and *Philosamia* crossed, 15, 101
promethea, morphological vari-
ations in x-rayed stock, 42,
145

Calocampa

brillians, new species, 10, 78

notes on, 10, 77

Calocoris rapidus, eggs and early
stages of, 22, 229

Calpodes ethlius, 20, 70

Calybia slosoniae

larva of, 5, 121

life history of, 6, 158

Camponotus

anthrax, new species, 19, 96

fallax, new North American
forms of, 18, 216

- Campylomma verbasci*, early stages of, 23, 193
 Canada
 new
 craneflies from, 41, 91
 Diptera from, 38, 73
 Polistes in, 48, 1
 Capsidæ, list of from New York, 13, 48
 Carabidæ
 Cylindrocharis, synopsis of, 42, 193
 Dysidius, synopsis of, 42, 193
 Euferonia, synopsis of, 42, 193
 from Florida, 24, 92
 high elevations, 26, 119
 legs in, 28, 80
 melanius, synopsis of, 42, 193
 new species and records, 19, 113; 27, 225
 notes on, 42, 193
Carabus caseyi, 22, 75
Carama eretata, larva of, 10, 54
Cardiola obscura, on Staten Island, 25, 80
Caripeta
 criminosa, new species, 14, 129
 notes on, 14, 128
 Carpenter
 ant, internal anatomy of, 49, 294
 bees of the U. S., 24, 196
 Carrion beetles, feeding habits of, 35, 77
Carterocephalus
 Asiatic species of, 49, 221
 palæmon, in Conn., 48, 244
Cassidini, new species and varieties of, 33, 233
 Castration, parasitic, in
 Membracidæ, 19, 194
 Caterpillar homologies, 24, 137
 Caterpillars
 attacked by Histers, 12, 88
 cocoon placed by, 5, 42
 poison ivy, 12, 249
 Catnip leaf-hopper, early stages of, 31, 181
Catocala
 elda, 5, 17
 evolution of secondaries of, 11, 221
 herodias at Lakehurst, 17, 166
 illecta, larva of, 9, 189
 Catopidæ, new species of, 41, 187
Catopsilia philea in New York City, 21, 161
Catorhintha divergens, new species, 34, 214
 Cayman Islands, cicadas of, 47, 207
 Cecidomyiidæ, new species from New Mexico, 4, 204
 Cecropia moth,
 hyparasites of, 48, 259
 parasites of, 48, 259
Cephenemyia
 abdominalis, records of, 24, 92
 flight mechanism of, 35, 245
 game animals, 25, 98
 jellisoni, description, 49, 161
 new species of, 23, 145
 speed of, 47, 43
Ceracis, new species of, 6, 90
 Cerambycidæ
 food habits of, 4, 73
 new
 genera and species, 15, 80
 species of, 17, 99; 19, 124
 Obriini, reclassification of, 48, 367
Ceratinopsidis, studies in, 38, 15
Ceratinopsis, studies in, 38, 15
Ceratitis capitata, attractiveness of various oils for, 22, 240
 Ceratocampidæ, new species of, 15, 229
Ceratonia amyntor, early stages of, 9, 88
Ceratopogon guttatus, new species from Brazil, 12, 35
 Ceratopogonidæ, new species, 42, 343; 43, 283

- Cerceris fumipennis*, habits of, 20, 135
- Cercyonis alope ino*, new subspecies, 32, 109
- Cerostoma*
 new species of, 11, 45
 notes on, 11, 45
 xylostella, 32, 173
- Cerura nivea*, life history of, 6, 188
- Ceutophilus brevipes*, morphology of, 44, 281
- Ceutorhynchus*
 hamiltoni, 21, 312
 marginatus, biology of, 24, 243
- Chalcidoidea
 new
 American, 15, 177
 species of, 20, 274
 genera and species of, 19, 175
- Chalcoides fulvicornis*, 33, 120
- Charadra*, notes on, 16, 79
- Chelifer cancrroides*, variations of, 19, 65
- Chemical changes during life cycle of tent caterpillar, 34, 249, 319; 35, 219; 37, 17; 40, 481
- Cheyletidæ, new species of, 44, 17
- Chile, Cicindelidæ of, 26, 110
- China
 early entomology in; 47, 307
 new
 case-bearer on apple, from, 12, 45
 Membracidæ from, 50, 61
 seed-infesting chalcid-fly, from, 37, 13
- Chiomara mithrax*, 48, 116
- Chironomid, inhabiting pitcher plant, 13, 69
- Chironomidæ
 new species, 42, 343
 notes on synonymy of, 34, 273
- Chironomus*
 cayugæ
 feeding and rearing of, 21, 305
 new species, 21, 308
 cristatus, life history of, 31, 15
 new species of, 16, 7
- Chlænus leucoscelis*, 21, 311
- Chloropidæ, taxonomic notes on, 46, 417
- Choreutis*
 new species of, 10, 112
 revision of, 10, 106
- Chrysobothris*
 californica and allies, 18, 45
 new species of, 18, 51
 sylvania, notes on, 28, 151
 vergigripennis, new species from Maine, 18, 43
- Chrysochus auratus*
 anatomy of, 42, 65
 egg capsules of, 3, 192
 wing venation of, 42, 65
- Chrysomelidæ
 new
 and old species, 32, 138
 species of, 41, 297, 457
 species and varieties of, 33, 233
 notes on, 36, 287
 notes and new species, 27, 307
 review of, 4, 195
 studies in, 41, 297, 457
- Chrysopa perla*, external morphology of, 39, 1
- Chrysops*
 early stages of, 25, 149
 taxonomy of, 44, 51, 125
- Cicada*
 cultriformis, from Arizona, 23, 239
 hieroglyphica, 25, 196
 -killing wasp and flies, 32, 113
 marginata, var. *dealbata*, new variety, 23, 162
 Mexico, 44, 101
 pruinosa, var. *latifasciata*, new variety, 23, 8
 septendecim, domed burrows of, 3, 33
 seventeen-year, 7, 212

- notes on, 2, 96
 Long Island, 18, 259; 19, 261
 Staten Island, 2, 38
tibicen, 33, 35
- Cicadas
- Biological and faunistic notes of
 Texas species, 49, 165
 Cayman Islands, 47, 207
 Colorado, 29, 43
 distribution of in U. S., 38, 53
 Mississippi, 26, 141
 new
 American species, 28, 95;
 29, 1; 31, 1; 33, 35; 40,
 241; 42, 37; 43, 299; 44,
 101; 46, 291; 47, 287; 49,
 85
 Lower California, 25, 6
 Okanagana species, 24, 233
 Sonoran species, 25, 203
 species, 24, 42; 26, 141; 27,
 68, 179; 38, 53; 43, 173
 Arizona and California,
 34, 177
 Utah and California,
 23, 11
 Western U. S., 35, 373
 West Indian, 47, 287
 notes
 on, 23, 1; 24, 42; 34, 177;
 35, 373; 50, 169
 from Virginia and W. Vir-
 ginia, 46, 449
 Porto Rico, 36, 29
 records of, 40, 241
 songs, 49, 172
 and habits of, 48, 117
 Virginia, 30, 36
 western
 biological notes on, 38, 291
 characteristics of, 48, 117
- Cicadellidae
- collected in backyard, 31, 171
Erythroneura, new species and
 notes, 42, 285
- new species of, 32, 63; 42, 221
 New York, 39, 139
- Cicadidae
- review of West Coast, 23, 21
 Texas, 49, 165
- Cicindela
- abdominalis*, 26, 48
blanda, 21, 312
hirticollis var. *rhodensis*, new
 variety, 24, 92
longilabris, 21, 311
 new
 forms and notes, 30, 194
 race of and notes on, 26,
 138
purpurea limbalis, 19, 199
repanda-unijuncta, color form
 of, 32, 126
schaefferi, new species, 11, 213
scutellaris
 varieties of, 2, 142
 var. *lecontei*, note on, 2, 80
unipuncta, flying habits of, 22,
 74
- Cicindelidae
- Chile, 26, 110
 geographical distribution in
 eastern North America, 20, 1,
 17
 Louisiana, notes on, 10, 131
 Mexico, list of, 11, 213
 Mt. Desert, Maine, 9, 27
 New Jersey Pine Barrens, 10,
 236
 synopsis of, 40, 341
- Cicindeliden, index of, 14, 5
- Cicindelids, new species of, 21, 67
- Cioidae
- notes on, 22, 172
 studies in, 6, 61
- Circulatory mechanisms
- anatomy of, 47, 227
 blood pressure, 47, 227
 heart beat, 47, 227
 physiology of arthropodan, 47,
 227

- Cirphis pseudargyria* complex, 44, 239
- Cirrospilus inimicus*, biology of, 46, 27
- Cis*, new species of, 6, 78
- Cistelidæ, new species of, 19, 125
- Cladura*, venational variation in, 20, 36
- Clambidæ, genera and subgenera of, 37, 1
- Classification of
- bombycine moths, 1, 6
 - holarctic Lepidoptera, 6, 9
 - larva of Culicidæ, 14, 169
 - Lepidoptera, 3, 17
 - Proctotrypoidea, 11, 28, 86
- Clavicorn Coleoptera, new species of, 18, 210
- Cleorapexata*, new species, 15, 53
- Cleridæ, new species of, 16, 125; 19, 121; 25, 129
- Clerus jouteli*, new species, 17, 103
- Closson, William Baxter, 36, 425
- Clover, white, sweet, insects of, 38, 43
- Coccidæ
- collected in Mexico, 6, 165
- Coniferæ, 11, 61
- new species, 16, 197
- food plant catalogue of Mexican, 5, 178
- Galapagos Islands, 10, 28
- Japan, 17, 150
- new
- Japanese species, 17, 150
 - and little known species, 17, 105
 - species from
 - California, 11, 61
 - Mexico, 6, 165
 - New Mexico, 4, 201
 - records of, 7, 257
- Coccids, biology of primitive, 49, 116
- Coccinella transversoguttata*, 23, 254
- Coccinellid, an ant-nest, 19, 169
- Coccinellidæ
- list
 - Africa, 7, 163
 - British Columbia, 43, 331
 - new species of, 7, 71; 16, 125
 - notes on, 11, 35, 193; 16, 33; 41, 263
 - revision of, 7, 71
 - variable maculation in, 19, 6
- Coccoids of Texas and Mexico, 39, 587
- Cochlidionidæ, new genus from Virginia, 7, 208
- Cochliidiidæ
- new species of, 14, 30; 18, 161
 - notes on South America, 6, 231
- Cockroach
- desert, 19, 262
 - viviparous, rearing young of, 38, 85
- Cockroaches
- breeding of, 48, 297
 - for tetanus and indigestion, 33, 232
- Cocoons, placed by caterpillars, 5, 42
- Codling moth
- activity and temperature, 36, 147
 - generic name of, 11, 106
- Cœloides dendroctoni*, morphology of, 42, 297
- Cænomyia ferruginea*, 25, 134, 196
- Cænosian and Limnophorine genera, connectant forms, 44, 187
- Coleophora neviusiella*, new from China, on apple, 12, 45
- Coleoptera
- additions to New Jersey list, 49, 285
 - aquatic, 21, 32
 - collected in Georgia, 18, 71
 - Cuban, three new to U. S., 17, 148
 - field notes on, 21, 159
 - found with lepidopterous borers, 22, 172
 - geographical index to catalogs and list of, 36, 335
 - Georgia, list of, 19, 209

- habitats of, 33, 217
 hand-book of N. E. America, 2,
 133, 175; 4, 33; 5, 36, 133
 index to keys, 35, 279
 and local lists, 37, 135; 49,
 21
 Keys and local lists, index to,
 49, 21
 Leng's list of changes in, 26,
 201; 29, 173
 list
 from Labrador, 18, 173
 north eastern American, 1,
 91, 134, 185; 2, 42, 87;
 3, 73, 180
 lists and keys, index to, 49, 21
 morphology of
 eyes of, 34, 343
 mouthparts, 46, 245
 new
 clavicorn, 18, 210
 genera and species, 12, 197
 from Westfield, N. Y.,
 29, 145
 New Jersey sheep pasture, 40,
 77
 New Mexico, biological notes, 5,
 149
 new species
 and notes, 19, 113; 23, 47;
 28, 184
 from New York, 28, 14
 notes and new species of, 26, 211
 notes on, 17, 71
 various species of, 5, 201
 five sericine, 40, 379
 ocean drift, 33, 60
 Ontario, 27, 92
 Schoharie, N. Y., 28, 14
 taxonomic studies in, 37, 429
 West Indies, 22, 180
 Windsor, N. Y., 28, 178
 wing folding patterns of, 34, 42,
 91
Colias
 notes on, 45, 311
- Collecting
 Florida, 1, 147
 Georgia, 18, 82; 19, 216
 Paraguay, 42, 231
 notes, 32, 170
 Collectors
 N. J. butterflies, 48, 51
Collops,
 new species of, 20, 249
 review of North American spe-
 cies, 20, 249
 Colombia, new craneflies from, 21,
 193
Colon elongatum, new species, 27, 98
 Coloration, cryptic, 21, 312
 Color
 change, in spider, 13, 85
 pattern in beetle wings, 20, 292
 preference of insects, 11, 132
Coloradia pandora, life history of,
 30, 69
 Colorado
 bees of, 27, 298
 butterflies, 42, 155
 cicadas of, 29, 43
 Lycosidæ of, 2, 49
 mosquito enemies in, 39, 151
 new
 bees from, 37, 441
 Diptera from, 40, 435
 Ethmia from, 12, 44
 species and records of Dip-
 tera, 44, 341
 potato beetle, Title by C. V.
 Riley, 46, 194
 Colors
 of bugs, 32, 163
 Columbian Andes, Membracidæ from,
 22, 275
 Comenius, John Amos, "Orbis Pic-
 tus," of, 40, 511
 Complement fixation reaction and
 Drosophila antigens, 46, 401
Composita fidelissima, life history, 4,
 70

- Comstock, Anna Botsford, 36, 429
notice of death of, 39, 267
- Comstockia subterranea*, new genus and species, 26, 179
- Coniferæ
Coccidæ of, 11, 61
new Coccidæ of, 16, 197
- Conifers, host list for *Coccidæ*, 11, 75
- Connecticut
Atrytone logan in, 48, 258
Carterocephalus palæman in, 48, 244
collecting tour in, 3, 62
dragonflies from, 22, 154
- Conotrachelus*
brevisetis, sexes of, 28, 74
seniculus, 32, 119
- Contarinia vaccinii*
new species, 34, 85
life history of, 34, 82
- Copelatus*, North American and Cuban, 16, 16
- Coquillett, Daniel W., work of, 22, 159
- Coulee cricket, habits of, 13, 74
- Coreidæ, in U. S. National Museum, 34, 209
- Corixid, life history of, 25, 112
- Corixids, food habits of, 25, 1
- Corn earworm moth, eggs, seasonal abundance of, 48, 305
- Cornell South American expedition, membracids from, 35, 159
- Corrodentia
new species of, 38, 219, 319
of the United States, 38, 219, 319
- Corylophidæ, review of American, 8, 51
- Corynocoris typhæus*, feeding on cation, 20, 294
- Coscinoptera dominicana*, 21, 311
- Cosmia punctirena*, note on larva of, 10, 169
- Cossidæ, new species, 9, 45
- Costa Rica, craneflies of, 22, 116
- Cotalpa*, new species of, 13, 1
- Coxey, W. Judson, 40, 375
- Crambidæ, new species of, 8, 224; 28, 214
- Crambinæ, notes on, 28, 214
- Cranberry
blossom worm, 37, 409
bog leafhoppers, 37, 425
- Craneflies
Costa Rican, 22, 116
neotropical, records and descriptions, 46, 327; 48, 105; 49, 139, 345; 50, 135, 251
- Crassiseta*, notes on, 16, 151
- Cremastochilus*
and ants, 26, 110
studies of, 16, 68
- Creophilus villosus*
biology of, 46, 49
predaceous habits of, 23, 150
- Cricket, effect of
air pressure upon, 35, 307
supersonic waves upon, 35, 307
- Crophius*
review of, 46, 313
species of, 46, 313
- Crosses of *Philosamia* and *Callosamia*, 15, 101
- Cryptic coloration of *Galasa rubidana*, 21, 312
- Cryptocampus*
new species, 17, 18
in North America, 17, 7
- Cryptophagidæ, review of, 8, 51
- Cryptorhynchus lapathi*, tenacity of life, 5, 30
- Cuba
Copelatus from, 16, 16
new craneflies from, 34, 223
- Cuban Coleoptera new to U. S., 17, 148
- Culex*
annulatus, note on, 10, 131
cantans, life history, 12, 36
mitchellæ, new species, 13, 74
punctator, larva of, 12, 169

- territans*, eggs of, 12, 246
varipalpus, life history of, 12, 90
 Culicidæ
 descriptions of larvæ, 9, 177
 larvæ of, 11, 1; 14, 169
 North American, 10, 194
 new
 genera and species from North America, 10, 191
 Philippine species, 10, 127
 World, review of, 15, 239
 Cupedidæ, of America, 28, 197
Cupes concolor, male genitalia of, 32, 167
 Curculionidæ, new genera and species, 5, 49
Curranops, new genus of Otitidæ, 50, 249
Cuterebra
 new species of, 13, 182
 peromysci, new species, 50, 45
 Cuterebridæ
 new species of, 50, 45
 Cuticle, insect, 50, 212
Cybister, distinctive characters of, 13, 103
 Cycellini, notes on, 24, 39
Cychnus heros, notes on, 32, 122
Cycloptilum squamosum, 22, 171
 in New Jersey, 17, 188
Cymatodera horni, male of, 30, 191
 Cynipid, new from Arizona, 16, 45
Cyphoderris, notes on genus, 12, 47
 Cyphophthalmid, new from South America, 45, 133
Cyrtacanthaerinae, taxonomic value of internal structure in, 44, 345
Cyrtolobus
 new species of, 32, 7
 observation on, 32, 1
 Cyrtophylli of the United States, 14, 32
Cyrtoxipha columbiana, new species, 15, 237
Danaus plexippus, arrival in spring, 19, 199
 Darwin, Charles, bees collected by, 40, 519
 Dasypogonine robber flies, new, 42, 225
Datana
 chiriquensis, new species, 3, 167
 robusta
 larva of, 15, 54
 life history of, 16, 1
 Death-feint
 Sitophilus
 granarius, 48, 37
 oryzæ, 48, 37
 Trox unistriatus, 48, 303
 "Decade of Curious Insects," by Sir John Hill, 35, 83
 Deer bot-flies, 23, 145
 Defense glands of insects, 4, 26
Deinocerites again, 15, 121
 Delphacids, notes and new species, 34, 257
Deltocephalus
 inimicus, development of, 2, 146
 new species of, 34, 241
 review of De Long's monograph on, 34, 265
Deltometopus amenicornis, with ants in stump, 19, 261
Demas propinquilinea, systematic position of larva of, 3, 130
Dendrobiella, new species of, 6, 68
Dendrolimus howardi, new species, 4, 22
 Dermaptera
 Florida, 22, 96
 Virginia, 34, 27
Dermestes, local species of, 23, 197
 Dermestidæ, review of, 8, 5
 Desert cockroach, 19, 262
 Development of roach nymphs, 50, 263
 Dexiidæ
 new
 genera and species, 7, 218
 species from So. America, 23, 61

Diabrotica

development, origin and diffusion, 3, 158

New Mexico, 4, 201

origin and diffusion, 4, 67

soror, immature stages of, 5, 15

Dietz, Ottomar, resolutions on death of, 10, 170

Dicera

lurida, 23, 15

obscura, 23, 151

Diceroprocta, new species of, 36, 439

Dickerson, Edgar L., notice of death of, 32, 159, 161

Dieunomia, study of, 43, 201

Digger bees, notes on, 9, 29, 52

Dineutes

discolor, sunbath of, 22, 74

robertsi, new species, 19, 11

Dinomimetes epitedeus, new genus and species, 15, 120

Diognites in U. S., 44, 225

Dioptidæ

notes on, 39, 69

position of, 30, 71

Diphthera fallax, life history of, 7, 67

Diptera

at home on spider webs, 20, 143

blood-sucking adults and aquatic larvae, 3, 134

catalogue of American, additions to, 15, 2

Chloropidæ, taxonomic notes on, 46, 417

new

acalyptrate, from North America, 10, 177

Colorado, 40, 435; 44, 341

from a New Jersey sheep

pasture, 40, 77

orthorrhopous from Mexico and Texas, 10, 136

species

Canada, 38, 73

and notes, from Texas,

5, 171, 6, 50

notes on, 15, 1

notes and new species from Texas, 12, 31

seminal receptacles and accessory glands of, 33, 195; 34, 1

Symphoromyia, synopsis of, 2, 53

Dircenna, new species, 50, 42

Dirphia carminata, new species, 10, 54

Disease transmission and ticks, 47, 95

Diseases, larval, of Japanese beetle, 43, 405

Disonycha, new species and notes, 39, 279

Dissosteira carolina, respiratory system of, 27, 19

Distribution of tiger beetles, 20, 1, 17

Dixa, larval characters of, 36, 263

Dodia albertæ, new species, 9, 85

Dolichovespula arenaria, taste sensibility of, 49, 367

Dominica, Attidæ of, 22, 329

Dominican sphingidæ, larvæ of, 15, 50

Dorcesta obtusa, 27, 108

Doru

new species of, 22, 89

United States and Mexican records, of, 22, 89

Doryphorophaga

new species of, 43, 387

synopsis of, 43, 387

Dræculacephala inscripta, notes on, 25, 215

Dragonflies

Adirondacks, 26, 124

Connecticut, 22, 154

list from Buffalo, N. Y., 5, 87

migratory flight of, 24, 90

New York City, 21, 11

Staten Island, 6, 195

tandem, 26, 226

Dragonfly

deformed, 20, 68

- larvæ, respiratory structure of, Ecuador
24, 306
new
nymphs, notes on, 35, 65
Drassus shumakovi, new species, 42,
1
Drasteria erectea, development of,
6, 27
Drepanid larvæ, notes on, 3, 66
Drosophila
 ampelophila, biological notes on,
22, 135
 antigens, seriological investiga-
 tions of, 46, 401; 47, 219
 melanogaster
 culture media for, 49, 77
 mass production of, 49, 77
 repleta, 21, 273
 somatic modifications in, 46, 453
 species
 serologic relationships of,
 48, 265
 taxonomic relationships of,
 48, 265
Dryopidæ, new species of, 19, 118
Dung and carrion beetles, food
 habits of, 3, 61
du Simitiere, Pierre Eugene, 35, 211
Dutch elm disease, 46, 232
Dyar, Harrison G.
 note on, 25, 95
 notice of death of, 37, 176
 reply to by A. R. Grote, 6, 60
Dystiscidæ
 habits of, 21, 43
 new species of, 25, 163
Dytiscus,
 distinctive characters of, 13, 103
 flying in January, 21, 160
Earthworm, as tree planter, 3, 139
East Indies, new Membracidæ from,
22, 234
Eciton
 mexicanum, 39, 295
 pilosus, 39, 295
Economic entomologist, Theophras-
tus as, 46, 223
Ecuador
 new
 bees from, 22, 218, 306
 form of *Hyloicus* from, 40,
 375
 notes on butterflies from, 50,
 123, 309
Editorial, 12, 53, 123, 188, 256; 13,
51, 97, 213; 14, 50, 166, 231; 15,
111, 171
Egg deposition of *Megarhyssa luna-*
tor, 42, 127
Elateridæ
 new
 species of, 24, 256
 and old species of Ameri-
 can, 42, 7
 Pennsylvania, 49, 233
Electromagnetic waves, effect of on
 materials surrounding insects, 41,
241
Electron
 micrographs of insect tracheæ,
 50, 147
 microscope studies of tracheæ,
 50, 245
Ellida caniplaga, life history of, 10,
143
Elophila fulicalis, notes on, 27, 263
Emphor bombiformis, life history of,
19, 238
Enæmia crassinervella, notes on, 4,
86, 87
Enallagma recurvatum, new species,
21, 15
Enchenopa binotata
 life history of, 20, 59
 nymph-variation of, 24, 151
Encyrtidæ, new genera and species
 of, 19, 177
Engravers of No. American insects,
36, 421; 37, 439
Ennearthron, new species of, 6, 88
Ennomos alniaria, early stages of, 3,
137
Entomogenous fungi, 49, 205

Entomological

- bookdealer, European experi-
ences of, 39, 600
- juveniles, 40, 511
- names, origin of, 17, 51
- writing, for more clarity in, 50,
199

Entomologists

- insecticide minded, 40, 159
- letters from various, to E. A.
Schwarz, 37, 1, 81
- Renaissance, 35, 193

Entomology

- Anthony Van Leeuwenhoek, 36,
95
- Aristotle, 37, 101
- bibliographies of, 32, 206
- Captain Cook, 34, 222
- for children, 47, 303
- development of Russian, 37, 153
- early
 - American children's book
on, 40, 511
 - papers on, 36, 293
 - in China, 47, 307
 - Hakluyt's Voyages, 34, 218,
354
 - Horapollo, 36, 119
- John Brickell's "Natural His-
tory of No. Carolina," 36,
185
- Martin Lister, 37, 43
- "Menagier de Paris," 37, 421
- nursery rhymes, 46, 195
- "Orbis Pictus," 40, 511
- Peter Pindar's poems, 34, 231
- Pliny the elder, 34, 355
- Robert Hooke, 36, 95
- Samuel Pepys diary, 33, 59
- statistical method, 33, 56
- Thomas Boreman's natural his-
tories, 47, 213
- veterinary of 16th century, 37,
159
- Entylia germar*, forms of, 18, 260

Environment

- factors in aquatic, 21, 1
- gall midges, 21, 62
- Hydrophiliæ, 21, 54
- hydrophytic, Odonata in relation
to, 21, 9
- relative of mosquitoes to, 21, 55
- Epargyrgus tityrus*, feeding on
Kudzu vine, 44, 316
- Ephemeroptera, nuptial flight; 48,
379
- Ephydra*
 - biology of, 20, 77
 - new species of, 20, 99
- Epiblema otiosana*, biology of, 40,
503
- Epiglæa apiata*, a cranberry pest, 37,
409
- Epilachna corrupta*, external mor-
phology of, 38, 423
- Epipashinæ, new species of, 8, 221
- Epuræa ornatula*, new species, 27,
102
- Erebus odora*, 20, 68
- Erigoneæ
 - genera of, 46, 55
 - generic studies in, 43, 217
 - new
 - genera & species of, 46, 55
 - species of, 35, 147; 43, 31,
217, 255
 - from Tennessee, 33,
170
 - studies in, 46, 55
- Eristalis*
 - new American species of, 23, 139
 - tenax*, unicellular glands in
larvæ of, 37, 127
- Errata, 10, 260; 14, 242; 21, 71,
315; 34, 374; 35, 108; 36, 441; 37,
88; 39, 272; 40, 391
- Erycinidæ from Trinidad, 22, 152
- Erythroneura*, notes and descriptions,
42, 285
- Erynnis meridianus*, new species, 35,
261

- Esters as repellents, 42, 185
- Ethmia*
caliginosella, new, from Colorado, 12, 44
 new species of, 10, 202
 review of, 10, 202
- Ethylene oxide, effect on fresh fruits, 39, 567
- Eubaphe nigricans*, larva of, 18, 163
- Eucactophagus graphipterus* in New Jersey, 24, 92
- Eucaterva variaria*, larva and pupa of, 2, 37
- Eucratocerus*, new species of, 6, 64
- Euelea delphinii*, life history of, 4, 125
- Eucleidæ, 5, 121
 life histories of, 3, 145
- Eucosma lathamii*, description of, 45, 131
- Eucymatoge rectilincata*, new species of, 15, 234
- Eudæmonia*
brachyura, habits of, 9, 195
 two species of, 5, 166
- Eudamus casica*, remarks on, 33, 227
- Eudiotis nitidalis*, 40, 98
- Eulophidæ, new species of, 19, 179
- Eumacronychia*
 new species, 47, 57
 review of, 47, 57
- Eupithecia*, new species of, 16, 100
- Eupithecias*, eastern and central, 16, 98
- Euponera gilva harnedi*, biology and social life of, 39, 507
- Eupteryginæ
 new genera and species, 34, 141
 notes on neotropical, 34, 141
- Eupteryx melissæ*, life history of, 31, 181
- Eurema*
 morphology and phylogeny of, 36, 61
 revision of, 36, 61
- European
 ants, observations on, 17, 172
 mole cricket, 26, 18
- Eurymus eurytheme*
amphidusa f. *pallida*, 37, 48
 at Ithaca, N. Y., 37, 437
 in Maine, 40, 510
- Euthisanotia timais*, larva of, 10, 125
- Euura orbitalis*, life history, 2, 102
- Evolution
 Arthropoda, 29, 63
 secondaries of *Catocala*, 11, 221
- Exartema ferriferanum*, bionomic notes on, 46, 23
- Exochomus scapularis*, 20, 68
- Exoristidæ, notes on, 21, 301
- Exptochiomera*, new species of, 40, 357
- Eyes of Coleoptera, morphology of, 34, 343
- Falagria* Mannh., and its relatives, 20, 20
- Falcaria bilineata*, life history of, 2, 108
- Fall, Henry Clinton
 biography of, 48, 33
 portrait of 48, 33
- Feeding mechanism of Lepidoptera, 46, 233
- Feralia jocosa*, life history of, 6, 182
- Firebrat
 ability to damage paper and fabrics, 49, 357
 biological notes on, 41, 557
- Flea and louse, battle between, 33, 114
- Fleas, paper on new, 48, 126
- Flies and wasps killing cicadas, 32, 113
- Floricomus*, studies in, 43, 31
- Florida
 beetles, 24, 92
 Caribidæ, 24, 92
 collecting in, 1, 47

- collecting Rhopalocera in, 28, 235
- Dermaptera and Orthoptera from, 22, 97
- fungous beetles in, 35, 63
- insects from, 2, 106
- list of ants from, 40, 1
- mosquito visitors of, 15, 215
- new
- Belocephalus* from, 20, 122
- Hemiptera from, 33, 61
- Thysanoptera from, 23, 121
- Noctuidæ from, 8, 173
- Pyralidæ and Tortricidæ from, 9, 49
- Orthoptera from, 22, 191
- pyralid larvæ from, 9, 19
- Fly
- and mites, 21, 274
- wing, structure of, 35, 246
- Food habits of
- Cerambycidæ, 4, 73
- dung and carrion beetles, 3, 61
- Rhynchophora, 1, 36, 80
- Forficulidæ, new species from U. S. and West Indies, 15, 166
- Formica*
- discussion of genus, 16, 56
- fusca*, var. *subsericea*, nest of, on Long Island, 23, 69
- Formicid nomenclature, 46, 1
- Formicidæ
- new North American species, 17, 77
- subspecies of *Odontomachus*, 47, 125
- South Carolina, 42, 353
- Texas, 44, 156
- Frogs, as insect collectors, 32, 174
- Fumigation, with ethylene oxide, 39, 567
- Fungi, edible and associated animals, 47, 11
- Fungous
- beetles in Florida, 35, 63
- disease of Japanese beetles, 48, 401
- gnats, new from N. America, 45, 387
- Fungus-growing
- ant on Long Island, 22, 64
- ants, new, from Texas, 19, 245
- Fuscozetes* in northeastern U. S., 43, 311
- Galapagos Islands, Coccidæ of, 10, 28
- Galasa rubidana*, cryptic coloration of, 21, 312
- Gall
- fly parasites from California, 20, 224
- midge
- enemies of mealy bugs, 41, 55
- enemy of pineapple mealy-bug, 41, 55
- new, on rhododendron, 47, 41
- on pine cones, 43, 48
- midges
- new
- Asian, 23, 173
- species, 19, 190; 20, 146; 21, 213; 22, 124; 25, 193; 27, 277; 29, 115
- western, 24, 175
- Galumnas of N. E. United States, 42, 87
- Gastrophilus hæmorrhoidalis*, notes on, 24, 253
- Gazophylacii of James Petiver, 35, 411
- Gelechiidæ, new *Trichotaphe* from N. Y., 47, 159
- Generic
- names, change of, 23, 68
- types, 12, 120; 13, 213
- Geocoris*, new species of, 43, 131

- Geometrid
 larva, self decorating, 9, 191
 moths, origin of, 3, 30
- Geometridæ
 list of Newfoundland, 15, 128
 new
 Arizona, 14, 130
 species, 8, 215; 15, 105, 132,
 232; 16, 19; 18, 199; 19,
 160; 20, 282; 25, 123
 tropical America, 5, 161;
 6, 145
- Geomyzinæ, synopsis of, 21, 219
- Georgia
 Coleoptera, 19, 209
 collected in, 18, 71
 collecting in, 18, 82
 John Abbot of, 22, 65
 new Hemiptera from, 33, 61
 notes on collecting in, 19, 216
- Gesner, Conrad, 35, 195
- Giardomyia rhododendri*, 47, 42
- Gibson, Edmund H., resignation of,
 from U. S. Bureau of Entomology,
 27, 241
- Gingla laterculæ*, new species, 8, 32
- Ginglymia acirostris*, notes on, 27,
 263
- Glands
 abdominal, of Hesperinæ, 50,
 203
 prothoracic, of Lepidoptera, 47,
 131
 scent, of insects, 3, 110; 4, 26
 unicellular, in *Eristalis* larvæ,
 37, 127
- Gluphisia severa*, in New Jersey, 5,
 96
- Gnorimoschema gallæsolidaginis*, bi-
 ology of, 30, 81; 46, 155
- Goding, Frederic Webster, biogra-
 phy, 42, 443
- Goeldi's "Os Mosquitos no Pará,"
 14, 57
- Golden rod
 gall, 46, 155
 -maker, biology of, 30, 81
- Gomphus descriptus*, new species, 4,
 194
- Gortyna*, new arrangement and name
 in, 35, 179
- Grass midges, new, 44, 7
- Grasshopper culture, in laboratory,
 35, 41
- Grasshoppers, additions to New Jer-
 sey list, 21, 177
- Greenhouse insect fauna of New Jer-
 sey, 24, 144
- Grossbeck, John Arthur
 biography and bibliography of,
 22, 271
 death notice of, 22, 175
 portrait of, 22, 271
- Grylloblatta*, phylogenetic study of,
 43, 97
- Grilloblattidæ
 affinities of, 41, 127
 phylogeny of, 41, 127
- Grylloblattids descended from Pro-
 orthoptera, 43, 97
- Gryllotalpa gryllotalpa*, life history
 of, 26, 18
- Guam, ants of, 20, 44
- Guatemala, new bees from, 22, 218
- Guenée's Herminidæ revived, 26, 224
- Gynandromorphic membracididæ, 17,
 165
- Gyrophypnus davis*, new species, 32,
 72
- Habitats of Coleoptera, 33, 217
- Hadeninæ, genotypes of North Amer-
 ica, 41, 441; 45, 61, 211
- Hadena*, species of eastern North
 America, 21, 179
- Haldeman, S. S., historical material
 relating to, 46, 45
- Halictus*
 new species from U. S., Guate-
 mala, and Ecuador, 22, 218
 notes on, 15, 183
phaceliarum, new species, 27,
 299

Haliplidæ

critical notes on American, 21,

91

natural history of, 20, 178

new species of, 21, 91

North American, 20, 156

Haliplus, new species of, 20, 164

Halticini, new genus and species of, 29, 16

Hapithus agitator, 26, 227*Haploa*, notes on, 30, 72

Harris, Edward Doubleday

biography of, 27, 237

portrait of, 27, 238

Harris, T. W., letters of, 22, 76

Hartman, Carl G., observations of, on fungus-growing ants, 19, 245

Hawaiian Islands, Mallophaga from birds of, 10, 155

Heliocheilus lupatus, male of, 20, 193*Heliothis obsoleta*, abundance of eggs of, 48, 305*Helmis*, new species of, 33, 177*Hemadas nubilipennis*, galls of, on blueberry, 35, 253

Hemileucids, description of larvæ from Argentine Republic, 6, 150

Hemiptera

aquatic, notes on, 19, 99; 21, 29
breeding of, 18, 39

distribution of, 20, 134

—Heteroptera

corrections and comment, 32, 133

distribution of certain species, 22, 164

new to fauna of United States, 18, 34

new species of, 19, 23; 22, 164
New York, 16, 223

list of within 70 miles of New York, 12, 251; 13, 29

Long Island, 19, 112

new species from Florida and Georgia, 33, 61

new to New Jersey, 19, 198

semi-aquatic, oviposition of, 26, 12

Henicocephalus culicis, 20, 69*Heodes epixanthe phædrus*, new subspecies, 32, 111

Hepialidæ

new species of, 9, 76

notes on larvæ of, 3, 69

Heptagenine mayflies of North America, 41, 105

Herminidæ of Guenée, revived, 26, 224

Hesperiidæ

Alabama, notes on, 34, 269

Canal Zone and Panama, 39, 81
correction, 14, 50

new species, 41, 265, 481

South America, 38, 455

Trinidad and South America, 39, 523

notes on larvæ of, 13, 142

review of, 13, 111

synonymy in neotropical, 48, 116

type of *Pyrrophyge*, 48, 405

Hesperiinæ

abdominal glands of, 50, 203

Heterius, studies on, 16, 135*Heterocampa obliqua*, life-history of, 3, 27

Heterocera

Americana, 14, 117

new species, 4, 51

American, 4, 130

tropical America, 4, 147; 8, 225; 9, 40, 73

Heteromorous beetle larvæ, 4, 118

Heteroptera

eastern North America, notes and new species, 36, 1

list of Westchester, 18, 22

Hexapoda, associated with fungi, 47, 18

Hibiscus moscheutos, insects of, 27, 39

Hickory nut, passing of, 21, 123

- Hill, Sir John, "Decade of Curious Insects," 35, 83
- Hippoboscidae, new species and records of North America, 24, 126
- Hippodamia*, notes on American species of, 27, 162
- Hirmonneura bradleyi*, new species, 27, 301
- Histers attacking caterpillars, 12, 88
- Holcaspis centricola*, 26, 48
- Holcocephala*
stylata, 46, 14
 synopsis of North and Central American, 46, 11
- Homeopathic magic, and insects, 34, 342
- Homoptera edusa*, larva of, 9, 192
- Honeybees, used in testing liquid insecticides, 45, 341
- Honey-dew, attractive to insects, 26, 227
- Hooke, Robert, entomology of, 36, 95
- Hoperius planatus*, new genus and species, 35, 178
- Horapollo, entomology of, 36, 119
- Hormops*, home and position of, 26, 155
- Horn,
 George H., 36, 425
 notice of death, 5, 208
 Walther, notice of death, 47, 226
- Hornet habits, 39, 123
- Horses, ticks in ears of, 1, 49
- Host selection, and biological races, 42, 139
- Hulst, George D.
 biography of, 8, 248
 notice of death, 9, 91
 writings of, 8, 251
- Hurricanes, effect on insects, 48, 298
- Hyalopterus*
dactylidis, new species, 17, 115
 notes on, 17, 107
- Hydriomeninæ, genera of, 25, 44
- Hydrobiini, new species of, 32, 85
- Hydræcia larvæ, 7, 70
- Hydrophilidæ, review of, 8, 51
- Hydrophilus*
obtusatus, external morphology of, 39, 191
nimbatus, exodus of, 2, 191
- Hydrothassa*, North American species of, 36, 287
- Hyloicus mcrops judsoni*, new subspecies from Ecuador, 40, 375
- Hymenoptera
 chalcidoid, new genera and species of, 23, 165
 key to superfamilies, 7, 46
 new
 aculeate, 1, 53
 Japan, 12, 65, 146
 parasites, 11, 144
 species from Philippine Islands, 12, 1
 notes on, 33, 53
 transformations of, 4, 155;
 5, 77, 109
 parasites, host size and sex ratio, 47, 1
 parasitic
 geological history of, 18, 1
 New Jersey, 32, 73
 Philippine Islands, 12, 1
 phylogeny of parasitic, 46, 355
 sleeping habits of, 10, 209; 11, 228
- Hyperaspis fimbriolata marginatus*, new subspecies, 41, 263
- Hyperchiria*
io, var. *lilith*, note on, 3, 138
pamina, eggs and larva of, 8, 201
- Hypochilus*, collecting, 40, 19
- Ichneumonidæ
Arotes amœnus, external morphology of, 48, 155
 New England, 48, 155
- Idiocerus*
cognatus

- in America, 27, 126
- life-history of, 27, 129
- scurra*, life-history of, 25, 218
- Incisalia henrici*, in defense of, 15, 123
- Incurvaria russatella*, morphology of female reproductive system, 41, 167
- Index
 - geographical, to catalogs and lists of Coleoptera, 36, 335
 - to keys
 - to Coleoptera, 35, 279
 - and local lists of Coleoptera, 37, 135
- Indiana, new *Bacunculus* from, 13, 212
- Indians
 - American, insects as food of, 18, 264
 - insects as food for, 20, 28
- Indices to keys and local lists of Coleoptera, 49, 21
- Insect
 - activity and radio waves, 37, 59
 - collecting in
 - Connecticut, 3, 62
 - North Carolina and Virginia, 34, 351
 - collections, 34, 286
 - control, bearing of oxytofactor, in, 39, 159
 - development
 - embryonic stages, 45, 1
 - larval and pupal stages, 45, 149
 - distribution, 30, 202
 - elbow pins, winding of, 11, 99
 - fauna of
 - grave, 6, 201
 - greenhouses, 24, 144
 - inhabitants of white sweet-clover, 38, 43
 - metabolism and temperature, 37, 25
 - migrations, 32, 121
 - mouth parts, 42, 227, 228
 - names
 - history of, 16, 241
 - origin of, 17, 51
 - problems in Philippines, 39, 501
 - sound produced by caterpillar, 12, 92
 - stridulation, 30, 72
 - thorax, skewness in Odonata, 11, 117
 - tissue, aerobic nature of, 26, 1
 - tracheæ, electron micrographs of, 50, 147
 - traps, plants as, 44, 257
 - unusual habits of, 41, 397
 - visitors of white sweet-clover, 38, 43
 - wing venation, principles of, 43, 113
- Insecticide-minded entomologists, 40, 159
- Insecticides, tested by honey bees, 45, 341
- Insects
 - acidities of alimentary tracts, 32, 220
 - adobe walls, 12, 30
 - associated with
 - animals, 42, 249
 - animal products, 42, 249
 - fungi, 47, 18
 - man, 42, 249
 - aster heads, 42, 319
 - auction sale of, 1, 5
 - baiting for, 20, 194
 - behavior to colors, 50, 1
 - blueberry and cranberry, 46, 229
 - Chesapeake Beach, Md., 23, 154
 - circulatory mechanisms of, 47, 227
 - classifying symbols for, 42, 373
 - collected by frogs, 32, 174
 - collecting, 9, 95
 - in Florida, 1, 147
 - collection of John Pointer; 40, 95

- color preference of, 11, 132
 courtship, sensory basis of, 49, 217
 criminal prosecution of, 45, 251
 diet for small mammals, 43, 244
 effect of
 electromagnetic waves upon, 41, 241
 hurricanes on, 48, 298
 radio waves on, 39, 145
 evening primrose, 28, 32
 felled tree, 20, 119
 field station for study of, 34, 370
 flight of, 35, 245
 Florida, 2, 106
 food
 black widow spider, 46, 191
 North American Indians, 18, 264; 20, 28
 habitat ratios, 47, 155
 generic types of, 12, 120
 growth curves of, 47, 47
 homeopathic magic, 34, 342
 influenced by price of dairy products, 11, 59
Lactuca stems, 38, 463
Lemna minor, 48, 319
 Long Island, 20, 48
 maxillæ of, 31, 77
 Mexico, 42, 249
 migration of, 19, 259; 34, 199
 milkweeds, 29, 123
 moist woods, 30, 169
 money losses due to, 48, 195
 New Jersey, geographical distribution of, 18, 69
 ocean drift, 33, 60
 orchard and garden, 1, 16
 origin of wings in, 12, 237; 13, 5; 24, 1
 owl pellets, 17, 49
 Panchatantra, 33, 217
 phosphorescent organs of, 4, 61
 phylogeny of abdominal structures of, 39, 323
 Physiologus, 33, 238
 precursors of the plague, 35, 209
 propitiation of, 35, 50
 reactions to wave-lengths of light, 49, 1, 149
 relationship of apterygotan, 24, 267
 salt marsh, 32, 93
 scent glands, 3, 110
 sewage disposal plants, 34, 220
 shade tree, 50, 212
 shooting with beanshooter, 23, 253
 sleeping habits of, 10, 209
 sold at auction, 5, 102
 sound produced by larvæ, 13, 109
 speed of flight, 35, 245; 47, 43
 Staten Island, 3, 140
 sterility in, 47, 97
 sugar cane, 39, 577
 swamp rose-mallow, 27, 39
 terminal abdominal structures of, 37, 453
 Thoreau's writings, 35, 1
 underground ones, 8, 208
 (and) ultraviolet, 32, 195
 viviparity in, 43, 251; 44, 79
 witchcraft, 38, 127
 wood engravers of, 36, 421; 37, 439
 Yü Li Ch'ao Chuan, 34, 216
 Inspection, port, 50, 290
 International Congress for entomology, 7th, 45, 376
Iphiclides ajax in Long Island, 21, 161
Isochaetes beutenmülleri, larva of, 9, 190
 Ithomiinæ
 dicenna, border line, 50, 37
 Hyalenna, new genus, 50, 37
Ithycerus noveboracensis, studies in, 26, 215
 Itonidæ
 generic synopsis of, 19, 31

- new genera and species of, 19, 31; 20, 36
- Itonididæ
new species of, 20, 102, 146; 27, 277; 29, 115
studies in, 20, 236
- Jamaica
lepidopterous larvæ from, 9, 77
new craneflies from, 34, 223
- Japan
new
Coccidæ of, and list of species, 17, 150
Hymenoptera from, 12, 65, 146
- Japanese beetle
conditions influencing survival, 49, 65
diseases of larvæ, 43, 405
future distribution of, 47, 105
grubs, as food of mammals, 43, 244
mortality of larvæ, 49, 47
nematode parasite, 43, 345; 44, 173
parasites of, 44, 175; 48, 85
pathogen of, 48, 401
progress of investigations, 46, 203
relation of ants to, and parasites, 48, 85
seasonal trends in abundance, 45, 115
survival through metamorphosis, 49, 65
trap, 39, 593
- Japyx*, synopsis of species of, 11, 129
- Java, new species of Phoridæ from, 23, 185
- Johnson, Willis Grant, obituary, 16, 189
- Jonston, John, 35, 198
- Journal of N. Y. Ent. Soc., increase in subscription, 31, 196
- Joutel, Louis H.
biography of, 24, 239
notice of death of, 24, 236
portrait of, 24, 242
- Junonia lavinia*
new varieties of, 36, 305
variation in, 36, 305
- Kansas, new locustid from, 13, 50
- Katydid, extinct in New York City, 28, 78
- Katydids
notes on, 30, 73
pink, 20, 294; 35, 171
- Kearfott, William Dunham
biography of, 25, 238
writings of, 25, 238
- Keller, George J., notice of death of, 34, 293
- Key to
aberrations of
Nierophorus
carolinus, 35, 364
defodiens, 35, 356
marginatus, 35, 362
obscurus, 35, 362
postulatus, 35, 359
tomentosus, 35, 363
- color varieties of
Alebro albostriella, 34, 142
- families of
Bombyces, 1, 99
Proctotrypoidea, 10, 241
Pseudoscorpionida, 3, 2
Vespoidea, 7, 47
- forms of
Brachygastra, 50, 303, 306
Junonia lavinia, 36, 317
Melinae
lilis, 35, 29
menophilus, 35, 33
- genera
Agaristidæ, 2, 18
Agromyzinæ, 21, 246
Alebrini, 34, 142
Aleocharinæ, 20, 20

- Aretiidae, 1, 153
 Baeinae, 11, 88
 Belytidae, 10, 244
 Berytidae, 27, 80
 Blennocampinae, 6, 127
 Bostrichini, 6, 66
 Catopini, 41, 190
 Ceraphroninae, 11, 34
 Ceratocampidae, 2, 147
 Chilocorni, 7, 104
 Chrysomelidae, 4, 195
 Cicadidae, from West Coast,
 23, 22
 Cicadas of
 S. E. United States, 26,
 142
 Virginia, 30, 38
 Cioinae, 6, 77
 Coccinellini, 7, 82
 Coccothripini, 39, 606
 Cossidae, 2, 160
 Crambinae, 28, 216
 Cranophorini, 7, 132
 Cryptophagidae, 37, 432
 Cupedidae, 28, 202
 Cyrtophylli, 14, 34
 Dalceridae, 6, 231
 Diapriinae, 11, 28
 Dietyridae, 1, 128
 Dikraneurini, 34, 153
 Drassidae, 1, 127
 Drepanidae, 2, 60
 Euchromiidae, 1, 100
 Geomyzinae, 21, 283
 Haliplidae, 20, 161
 Hepialidae, 2, 166
 Heptageninae, 41, 107
 Hesperinae, 13, 112
 Hesperiidae, 13, 116, 124
 Hippodamini, 7, 75; 11, 36
 Hypesaspini, 7, 116
 Inostemminae, 11, 95
 Lacosomidae, 2, 120
 Lagoidae, 2, 109
 Lasiocampidae, 2, 152
 Limacodidae, 2, 66
 Liparidae, 2, 28
 Lithosiidae, 1, 108
 Lygaeidae, 36, 175
 Mastinocerini, 12, 214
 Milichiinae, 21, 234
 Monodontomerinae, 15, 177
 Monomachinae, 10, 243
 mosquito larvae, 14, 169
 Mutillidae, 7, 55
 Myrmosidae, 7, 52
 Noctuidae, 22, 3
 Notodontidae, 2, 112
 Notonectinae, 13, 149
 Nymphulinae, 14, 77
 Oethiophila, 21, 231
 Oscinidae, 6, 45
 Ostomini, 26, 200
 Pamphilinae, 13, 123
 Pericopidae, 2, 26
 Phalangidae, 2, 40
 Phaloninae, 15, 19
 Platygasterinae, 11, 90
 Psychidae, 2, 118
 Pyromorphidae, 2, 63
 Rhyzobini, 7, 161
 Sarcophagidae, 48, 135
 Saturniidae, 2, 121
 Scatophagidae, 6, 161
 Scelioninae, 11, 91
 Scymnellini, 7, 113
 Scymnini, 7, 133
 Silphinae, 35, 332
 Sphindidae, 6, 92
 Spilomicrinae, 11, 28
 Streblidae, 33, 12
 Tachinidae, 3, 49, 97
 Tachycellus, 13, 177
 Teleasinae, 11, 89
 Telenominae, 11, 87
 Tenebroidini, 26, 190
 Therevidae, 2, 97
 Thynnidae, 7, 49
 Traches, 28, 137
 Trypetidae, 7, 267; 31, 120
 Yponomeutidae, 11, 47
 Zeuzeridae, 1, 31

- and species of
 box-mites, 46, 109
 Brenthidæ, 23, 52
 Corylophidæ, 8, 51
 Cryptophagidæ, 8, 51
 Dermestidæ, 8, 51
 Hydrophilidæ, 8, 51
 Melandryidæ, 8, 166
 Membracidæ, 35, 183
 of South America,
 35, 391
 Pamphantinæ, 41, 538
 Scaphidiidæ, 8, 51
 Silpha and Necrodes,
 35, 342
 Staphylinidæ, 8, 51
 Tritomidæ, 8, 51
and subgenera of
 Clambidæ, 37, 5
 Leiodidæ, 37, 1
genotypes of
 Hadeninæ, 70
groups of
 Eurema, 36, 63
 Nicrophorini, 35, 350
immature stages of *Chrysops*,
 44, 71
larvæ of
 Blennocampinæ, 6, 137
 Cochlidiidæ, 7, 235, 236
 Recurvaria, 11, 153
 Silphinæ, 35, 335
male genitalia of Leptodiridæ,
 41, 235
nymphs of,
 Anax, 35, 68
 Bætisca, 39, 60
 Heptageninæ, 41, 107
 Tramea, 35, 73
Sarcophaginæ, 48, 203
Satyridæ, 50, 309
species of
 Abebæa, 11, 53
 Acmaeodera
 emarginate, 7, 19
 lobatæ, 7, 35
 sinuate, 7, 5
 truncatæ, 7, 29
 Actenodes, 12, 209
 Adalia, 7, 85; 11, 194
 Adelops, 41, 208
 Adoneta, 2, 71
 Agromyza, 21, 251
 Aknisus, 27, 81
 Alebra, 34, 142
 Alconeura, 34, 163
 Alypia, 2, 19
 Amara, 4, 33
 Amblyscirtes, 13, 135
 Amphicerus, 6, 68
 Anacroneura, 35, 111
 Anaglypti, 12, 223
 Anatis, 7, 97
 Anatrytone, 13, 140
 Ancyloxypha, 13, 126
 Andrena, 9, 132
 Anisocalva, 7, 96; 11, 206
 Anisota, 2, 147
 Anomala, 15, 69
 Anomæa, 41, 309
 Anthomyza, 21, 293
 Anthophilax, 25, 38
 Anthrribus, 12, 236
 Antineura, 21, 250
 Apantesis, 2, 14
 Apatelodes, 2, 113
 Apatides, 6, 70
 Aphilanthops, 12, 141
 Apoda, 2, 73
 Aporinellus, 19, 230
 Arachnis, 1, 178
 Ardistomis, 2, 189
 Argeniella, 19, 234
 Argyria, 28, 223
 Aristotelia, 40, 425
 Aspidoptera, 33, 26
 Atenius, 38, 94
 Ataxia, 15, 85
 Atrytone, 13, 137
 Atrytonopsis, 13, 133
 Attacus, 2, 122
 Atymna, 46, 237

- Augochlora*, 22, 327
Automeris, 2, 127
Axion, 7, 106; 16, 34
Babia, 41, 319
Badister, 4, 47
Basilona, 2, 151
Belocephalus, 20, 124
Bembidium, 5, 134
Bertholdia, 6, 36
Bezzia, 22, 282
Bidessus, 25, 167
Blethisa, 2, 176
Bolitophila, 45, 387
Bolla, 13, 119
Bostrichus, 6, 71
Brachyacantha, 7, 117
Brachypremna, 20, 228
Brachys, 31, 61
Brumus, 16, 41
Buprestis, 26, 81
Cacama, 23, 23
Cæcilius, 38, 320
Callarectia, 2, 6
Calligrapha, 4, 198
Callosamia, 2, 124
Calosoma, 2, 140
Camponiscus, 16, 106
Camptodes, 12, 204
Carabus, 2, 138
Catops, 41, 210
Cecrita, 2, 117
Cephaloscymnus, 7, 161
Ceracis, 6, 90
Ceratinella, 1, 129
Ceratopogon, 13, 59
Cerceris, 12, 129
Cerodonta, 21, 249
Cerostoma, 11, 48
Cerura, 2, 114
Chærephon, 13, 125
Charadra, 16, 79
Chelanops, 3, 4
Chelifer, 3, 2
Chilocorus, 16, 36; 7, 105
Choreutis, 10, 110
Chrysobothris, 18, 46
Chrysomela, 4, 200
Chrysops, 44, 72
Chthonius, 3, 13
Cicindela (*purpurea* group)
 40, 344
Cis, 6, 78
Cisthene, 1, 115
Citheronia, 2, 150
Cleis, 7, 95
Clidophleps, 23, 25
Clisiocampa, 2, 154
Clivina, 2, 187
Cocceius, 13, 115
Coccinella, 7, 87; 11, 197
Cochliidiæ, 7, 244
Cælioxys, 22, 313
Cogia, 13, 114
Colenis, 37, 5
Collops, 20, 251, 253, 254
Commophila, 15, 30
Copelatus, 16, 17
Cossus, 2, 161
Cotalpa, 13, 1
Crambidia, 1, 108
Crassiseta, 16, 152
Crophius, 46, 313
Cryptocampus, 17, 8
Cryptocheilus, 19, 235
Ctenucha, 1, 105
Cupes, 28, 202
Cuterebra, 13, 181
Cychrus, 2, 135
Cycloneda, 7, 91; 11, 203
Cyenia, 1, 163
Cydosia, 6, 41
Cymbalophora, 2, 11
Cyrtophyllus, 14, 37
Cyrtoxipha, 15, 237
Dasychira, 2, 59
Dasyhelea, 43, 283
Dasylophia, 2, 116
Datana, 2, 116
Delphastus, 7, 112
Dendrobiella, 6, 67
Dendrolinus, 2, 158; 4, 23
Diastata, 21, 290

- Dicaelus*, 4, 44
Diceroprocta, 36, 441
Dicyrtoma, 7, 197
Didion, 7, 137
Dieunomia, 43, 208
Dikraneura, 34, 159
Dimares, 17, 1
Dinoderus, 6, 73
Diogmites, 44, 228
Dioplis, 39, 70
Diplochila, 4, 43
Dissochætus, 41, 195
Dyschirius, 2, 182
Dysidius, 42, 210
Ecpantheria, 1, 174
Elachiptera, 46, 421
Elaphrus, 2, 175
Elophila, 14, 90
Elpis, 2, 2
Emphytus, 16, 110
Ennearthron, 6, 88
Epargyreus, 13, 114
Epilachna, 7, 103
Episyron, 19, 229
Erynnis, 13, 129
Ethmia, 10, 202
Euaresta, 31, 146
Eubaphe, 1, 155
Euceratocerus, 6, 64
Eucerceris, 12, 84
Euclea, 2, 66
Eucosmoptera, 31, 131
Euctenodes, 33, 30
Eudamus, 13, 113
Eudule, 1, 118
Euferonia, 42, 199
Eulimacodes, 2, 72
Eumacronychia, 47, 59
Eumelia, 2, 115
Euphyes, 13, 138
Euribia, 31, 149
Eurosta, 31, 143
Euprepia, 8, 46
Eurycyttarus, 2, 119
Euthisanotia, 2, 24
Eutreta, 31, 141
Evarthrus, 3, 189
Exallonyx, 27, 9
Exochomus, 7, 107; 16, 39
Exptochiomera, 40, 362
Eyprepia, 2, 5
Fidia, 12, 227
Galumna, 42, 117
Garypus, 3, 8
Geocoris, 43, 136
Geomyza, 21, 288
Gluphisia, 2, 115
Glycerius, 13, 175
Gnophæla, 2, 27
Gnophomyia, 27, 145
Grabhamia, 13, 187
Gymnodia, 40, 54
Hadena, 21, 179
Halictus, 15, 183; 22, 219
Haliplus, 20, 162
Halisidota, 1, 167
Haploa, 1, 158
Harpipteryx, 11, 56
Harrisina, 2, 65
Helesius, 7, 129
Heliopetes, 13, 117
Helotropha, 21, 179
Hemileuca, 2, 129
Hepialus, 2, 167
Hesperopsis, 13, 118
Heterocampa, 2, 117
Heterogenea, 2, 74
Hippodamia, 7, 77; 11, 40;
 27, 167, 171
Hirmoneura, 27, 305
Holcocephala, 46, 13
Hoploderma, 17, 133
Hyalenna, 50, 38
Hydnobius, 44, 34
Hydriomena, 26, 63
Hydrothassa, 36, 288
Hypparpax, 2, 114
Hyperaspidius, 7, 130
Hyperaspis, 7, 121
Hypoprepia, 1, 112
Hypopta, 1, 33; 2, 164
Hysterosia, 15, 31

- Ianassa*, 2, 116
Icterica, 31, 145
Isodyctium, 6, 136
Jalysus, 27, 85
Japyx, 11, 130
Joruma, 34, 165
Josia, 39, 72
Kodiosoma, 2, 15
Lachesilla, 38, 344
Læmophlæus, 37, 433
Languria, 12, 198
Lebena, 1, 110
Lema, 41, 305
Leptinotarsa, 4, 196
Lerodea, 13, 137
Leucophobetron, 5, 122
Leucopis, 21, 232
Leucophora, 48, 340
Liacarus, 17, 124
Ligyrocoris, 29, 101
Limochroes, 13, 138
Linyphia, 1, 129
Liobunum, 2, 41
Lispa, 21, 131
Longitarsus, 29, 18
Lophodonta, 2, 115
Loxandrus, 4, 42
Lycomorpha, 1, 102; 6, 33
Lycostomus, 16, 63
Macrorchis, 44, 211
Mallophora, 49, 269
Mastogenini, 26, 214
Mastor, 13, 133
Mechanitis, 32, 148
Megalopyge, 2, 110
Megathymus, 13, 141
Megilla, 7, 76
Melalopha, 2, 114
Melanius, 42, 208
Melinæa, 35, 25
Membracide
 African, 40, 205
 old world, 42, 45; 47,
 315
 So. Amer. & Antilles,
 36, 201
Micrapate, 6, 72
Milichiella, 21, 239
Mimarctia, 2, 9
Monoleuca, 2, 69
Monophylla, 19, 123
 mosquito larvæ, 13, 22; 14,
 169
Mumetopia, 21, 294
Myas, 3, 180
Mycomyia, 45, 391
Mylæchus, 41, 229
Myochrous, 12, 228; 41, 473
Myrmosa, 1, 53
Myrmoteras, 38, 184
Nadata, 2, 113
Napomyza, 21, 272
Neaspilota, 31, 139
Nebria, 2, 179
Necrophilus, 35, 339
Nemadus, 41, 192; 45, 336
Nemobius, 4, 100
Nomaretus, 2, 137
Neoarctia, 2, 3
Neophyllomyza, 21, 243
Neorhynchocephalus, 42, 164
Neomysia, 7, 99; 11, 208
Nicrophorus
 germanicus group, 35,
 354
 marginatus group, 35,
 359
 orbicollis group, 35, 352
 pustulatus group, 35,
 356
 vespillo group, 35, 362
Nipus, 7, 132
Nola, 1, 109; 6, 42
Notaris, 14, 114
Notaspis, 17, 125
Notiophilus, 2, 178
Notodonta, 2, 113
Notolophus, 2, 28
Notonecta, 10, 231; 13, 149
Nycteribosca, 33, 21
Nymphula, 14, 78
Nysson, 4, 10

- Oarisma*, 13, 126
Obisium, 3, 11
Ochodæus, 17, 30
Ochlodes, 13, 131
Ochthipila, 21, 233
Odinia, 21, 248
Octotemnus, 6, 91
Odontosphindus, 6, 92
Okanagana and *Tibicinoides*, 27, 182
Olene, 2, 30
Olfersia, 24, 133
Olla, 7, 94
Omophron, 2, 133
Oncerometopus, 36, 194
Onthophagus, 22, 291
Opharus, 6, 39
Ophiderma, 25, 199; 27, 259
Oreta, 2, 61
Oribata, 17, 118
Orodemniās, 2, 10
Orthocis, 6, 84
Otidocephalus, 15, 78
Pachyschelus, 28, 138
Packardia, 2, 76
Pagara, 1, 114
Panagæus, 3, 73
Paradyschiria, 33, 27
Parallaxis, 34, 154
Parasemia, 2, 16
Paratrytone, 13, 135
Pasimachus, 2, 181
Patrobus, 3, 74
Pedinaspis, 19, 231
Pelecotomoides, 12, 231
Pelops, 17, 117
Peltodytes, 20, 173; 21, 122
Periclista, 6, 133
Peripsocus, 38, 366
Phædinus, 13, 115
Pharmacis, 15, 29
Pheosia, 2, 115
Philanthus, 12, 142
Pholeomyia, 21, 238
Phyllodesma, 2, 152
Phyllogaster, 44, 194
Phytodecta, 32, 140
Phytomyza, 21, 269
Plataretia, 2, 4
Platypedia, 23, 24; 28, 98
Platypeza, 23, 213
Pocadius, 19, 117
Pogonocherus, 17, 102
Polycesta, 41, 43
Potamanthus, 35, 322
Priocnemoides, 19, 236
Prionochæta, 41, 225
Prionozytus, 2, 162
Procecidochares, 31, 136
Prodoxus, 11, 103
Pronuba, 11, 102
Protalebra, 34, 147
Pseudocænusia, 44, 205
Pseudododinia, 21, 295
Pseudoepameibaphis, 46, 217
Pseudohazis, 2, 132
Psocus, 38, 225
Psyllobora, 7, 100; 11, 210
Pteronius, 16, 108
Pterostichus, 3, 181
Ptilinus, 6, 62
Ptomaphagus, 41, 201
Ptomascopus, 35, 364
Pygoctenucha, 1, 107
Pyrenes, 13, 139
Raphia, 16, 81
Raymondia, 33, 24
Recurvaria, 11, 153
Rhagoletis, 31, 134
Rhienoessa, 21, 298
Rhizophagus, 21, 309
Ræselia, 6, 42
Samia, 2, 123
Sclerothrix, 13, 117
Scepsis, 1, 103
Schizogenitus, 2, 189
Schizura, 2, 116
Scoparia, 14, 100
Scotophilella, 33, 70
Scymnillus, 7, 115
Scymnus, 7, 139
Scioptera, 50, 195

- Seriocopompilus*, 19, 228
Serphus, 27, 2
Silis, 26, 163
Sinca, 9, 2
Sisyrosea, 2, 69
Smilia, 7, 134
Smynthuridæ, 7, 194
Smynthuris, 7, 194
Sphindus, 6, 93
Sphingicampa, 2, 148
Spilogona, 40, 58
Spilosoma, 2, 1
Statira, 13, 179; 31, 185
Stenopelmatus, 24, 72
Stenopogon, 45, 292
Stethorus, 7, 135
Stomyles, 13, 134
Stratiomyiid larvæ, 30, 142
Strebla, 33, 29
Strigoderma, 15, 73
Symmerista, 2, 114
Symphoromyia, 2, 53
Tabanus in Yucatan, 39, 538
Tachycellus, 13, 172
Taphrocerus, 28, 143
Taracticus, 46, 179
Tenthredo, 5, 103
Terellia, 31, 138
Tetanops, 50, 249
Tethina, 21, 297
Thanaos, 13, 120, 122
Thargalia, 1, 127
Thorybees, 13, 115
Throscinus, 12, 205
Thymelicus, 13, 127
Thyridopteryx, 2, 118
Tibicen, 23, 23
 s.e. United States, 26, 143
 Virginia, 30, 38
Tibicinoides, 23, 27
Tiphia, 43, 396; 45, 271
Tolype, 2, 157
Tortricidia, 2, 75
Trachea, 21, 179
Trachoma, 11, 57
Trachymyrmex, 19, 249
Trichobius, 33, 14
Trichromia, 6, 37
Tricimba, 46, 428
Triplocris, 2, 63
Trioxcelis, 21, 296
Trosia, 7, 173
Trypanca, 31, 148
Uranotænia larvæ, 14, 8
Utetheisa, 1, 161
Vittatus, 44, 143
Xestocis, 6, 85
Xylocopa, 24, 209
Zagloba, 7, 113
Zammara, 23, 24
Zeuzera, 2, 160
Zonosema, 31, 127
Zygogramma, 4, 196
 subfamilies of
 Carabidæ, 2, 133
 Ceraphronidæ, 11, 33
 Diapriidæ, 11, 28
 Geometridæ, 25, 46
 Hadeninæ, 45, 73
 Miridæ, 26, 41
 mosquito larvæ, 14, 174
 Notonectidæ, 13, 149
 Platygasteridæ, 11, 95
 Psammocharidæ, 19, 222
 Scelionidæ, 11, 86
 subfamilies, tribes, and genera
 of *Membracidæ*, 34, 295
 subgenera of
 Aciura, 31, 131
 Chrysomelidæ, 27, 308
 Dikraneura, 34, 158
 Protalebra, 34, 146
 subspecies of
 Nierophorus
 guttulus, 35, 360
 investigator, 35, 358
 superfamilies of
 Hymenoptera, 7, 46
 tribes of
 Cerambycidæ, 48, 367
 Coccinellidæ, 7, 73

- tribes and genera of
 Membracidae, 39, 299
 varieties of
Straussia longipennis, 31, 125
 workers of *Ænietus*, 38, 198
 Keys, index to, for Coleoptera, 49, 21
 King, Francis S., 36, 425
 Knapp, J. B., notice of death of, 25, 90
 Koch, notes on spiders of, 9, 182
 Kudzu vine, fed upon by hesperid larvæ, 44, 316
 Labrador, list of Coleoptera from, 18, 173
 Lac, report of research institute, 43, 253
 Lace bugs
 new records for New Jersey, 44, 280
 notes from New Jersey, 45, 408
Lacosoma chiridota, life history of, 8, 177
 Lacosomidae, larval cases of, 8, 177
 Lactuca stems, insects from, 38, 463
 Lagriidae, notes on, 22, 285
 Lakehurst, camp at, 17, 95
 Lampyridæ
 Arizona, 16, 61
 new species of, 16, 61; 19, 120
 notes on life-histories of, 25, 11
 Languria, biologic notes, 12, 27
Laoga pyxidifera, note on larva of, 5, 160
 Larvæ, head setæ of, 4, 92
 Larval cases of Lacosomidae, 8, 177
 Lasiocampidae, new species of, 15, 231; 19, 82
Lasioptera murtfeldtiana, 46, 44
Lasius claviger, in Tahiti, 19, 262
Laspeyria, note on, 4, 85
Latheticus, notes and new species, 12, 166
 Lathridiidae, in New York City, 29, 178
Lathrobium, new species of, 27, 99
Latrodectus mactans, food of, 42, 449; 46, 191
 Leafhoppers
 cranberry bog, life histories of, 37, 425
 New York, 39, 139
 Ohio, notice of list, 37, 58
 Leafminer of *Populus*, 1, 76
 Le Conte, John Lawrence, life of, 22, 185
 Leioididae
 genera and subgenera of, 37, 1
 new species of, 44, 33
 studies on, 44, 33
Lemna minor, insects of, 48, 319
 Leng, Charles W.
 address of, 19, 1
 appointed director of Museum of Staten Island Institute of Arts and Sciences, 27, 241
 biographical notice, 49, 185
 N. Y. Ent. Soc., 49, 185
 notice of death, 49, 100
 portrait of, 49, 191
 Leng list of Coleoptera, corrections and additions, 29, 173
 Lepidoptera
 additions to New York State list of, 37, 41
 Californian, 15, 37
 early stages of, 7, 209
 list of diurnal, 16, 153
 catalogue of described transformations, Australian, 9, 147
 classification of, 3, 17
 Holarctic, 5, 151; 6, 9
 description of
 larvæ, 6, 249; 9, 85, 90
 wings in, 8, 1
 feeding mechanism of, 46, 233
 grafting of pupæ, 6, 252
 larvæ
 Jamaica, 9, 77
 rapid streams, 22, 145
 notes on, 8, 32
 used in magic, 34, 208

- new genera and species, 19, 151
 New Jersey, 22, 332
 new species and notes, 7, 254;
 12, 39, 105; 15, 50, 226; 18,
 149; 19, 81
 New York, new records of, 40,
 385
 notes on, 6, 57; 23, 70; 28, 227;
 29, 168; 30, 131; 33, 53
 Panama, 28, 238
 prothoracic glands of, 47, 131
 stridulation in, 30, 72
 Vancouver Island, 2, 31
 West African, new, 2, 77
 Lepidoptero-geography in Rocky
 Mountains, 45, 410
 Lepidopterous larvæ,
 descriptions of, 14, 131
 producing sound, 13, 109
Leptinotarsa
 deceimlineata, morphology of,
 36, 125
 undecimlineata, notes on, 15, 190
Leptobyrsa rhododentri, life history
 of, 25, 105
 Leptodiridæ
 new species of, 41, 187
 studies on, 41, 187
Leptotes
 Florida race of, 50, 243
Lestes inequalis, 5, 150
Leucophora, N. A. species of, 48, 335
 Life-histories of Notodontidæ, 1, 22,
 57
 Life history of *Pieris virginensis*,
 43, 139
 Light
 insect behavior to various wave-
 lengths, 49, 1, 149; 50, 1
 method for equalizing energy of
 wave-lengths, 49, 1
 Orthoptera attracted to, 46, 339
Ligyrocoris
 new species of, 29, 105
 revision of, 29, 100
Limenitis ursula var. *albofasciata*,
 24, 92
Limnobaris rectirostris,
 larva of, 32, 198
 life history of, 32, 196
Limnophora
 new species of, 40, 25, 105, 279
 North American species of, 40,
 25, 105, 279
 Limnophorine and cœnosian genera,
 connectant forms, 44, 187
 Linell, Martin Larson, biography of,
 5, 207
 Linyphiidæ
 Alaska, 29, 35
 new genera and species, 29, 35
Liophlæus tessulatus, 26, 225
Liopæum submetallicum, stylopiza-
 tion of, 39, 77
Lispa
 new species of, 21, 132
 North American species of, 21,
 126
 List
 Butterflies of N. J., 48, 47
 Collectors of N. J. butterflies,
 48, 51
 Lister, Martin, entomology of, 37, 43
Listronotus leucozonatus, new spe-
 cies, 34, 341
 Lists, local, of Coleoptera, index to,
 49, 21
 Lithosid genus, new, 1, 35
 Lithosiidæ,
 new from tropical America, 7,
 214
 new species of, 15, 227; 19, 151
 Lloyd, John Thomas
 collection of Membracidæ from
 Colombia, 22, 275
 craneflies, collected by, 21, 193
Lobobunæa
 new genus, 9, 191
 phædusa, early stages of, 9, 193
Lobodiplosis pseudococci, new spe-
 cies, 41, 55
 Locust stridulation, 4, 16
 Long Island
 Hemiptera of, 19, 112

- list of
 spiders from, 3, 77; 4, 190
 Syrphidæ from, 5, 40
 Pentatomidæ of, 20, 48
 periodical cicada on, 18, 259
 Smynthuridæ of, 7, 193
 Thrips from, 47, 83
Lophoderus amatana, new species, 9, 24
Lophoglossus, notes on, 21, 311
Lophoptilus, cloisella, life history of, 35, 241
 Loss, Herman, death notice, 8, 212
 Louisiana
 new Thysanoptera from, 23, 121
 notes on Cieindelidæ of, 10, 131
Paratheresia introduction in, 47, 38
 Louse and flea, battle between, 33, 114
 Lower California, new cicadas from, 25, 6
Luciola picticollis, control, a disease in Japan, 35, 315
 Luetgens, August, obituary, 16, 52
Luperodes davisii, new species, 19, 193
Luteva carolina, note on, 30, 130
 Lycænid larvæ
 and ants, 20, 31
 relational organs of, 20, 31
 Lycænidæ
 Africa, 28, 242
 California, 22, 33
Leptotes, Florida race, 50, 243
 Trinidad, 22, 152
 Lycosidæ
 Colorado, 2, 49
 new species, 2, 49
 Lygæidæ
 new
 genera, 26, 44
 and species, 26, 49
 Geocorinæ, 43, 131
 species of, 41, 531
 subfamily of, 41, 531
 review of *Crophius*, 46, 313
Lysander cormion, a new European butterfly, 49, 265
 Macrolepidoptera, slides of wings of, 23, 69
Macrops, new species and notes, 1, 12
Macrorchis, new species of, 44, 214
 Magnus, Olaus, credulous zoologist of 16th century, 38, 35
 Maine
 Cieindelidæ of, 9, 27
Eurymus eurytheme in, 40, 510
 new Chrysobothris from, 18, 43
 Rhynchophora in, 24, 307
 Malaehidæ, notes on, 24, 153
Malachius æneus, 22, 73; 23, 254
Malacosoma americana, chemical changes of during life cycle, 34, 249, 319; 35, 219; 37, 17; 40, 481
 Mallophaga
 Argentina, 14, 45
 Hawaiian Islands birds, 10, 155
 Pacific coast birds, 10, 20
 new species, 10, 20, 155
 from Nebraska, 10, 216
Mallophora, new species of, 49, 269
Mamestra
 notes on, 11, 1
van-orbicularis, note on, 10, 142
 Mandibles, origin of, 29, 63
 Mann, W. M., ants collected by, in Mexico, 22, 37
Manomera blatchleyi atlantica, new race, 31, 53
 Mantids, two from U. S., 13, 82
 Mantis and mouse, 47, 314
 Mantispidæ, parasitic on spider egg sacs, 46, 147
 Marsh, Henry, 36, 425
 Martyn, Thomas, English entomologist, 46, 321
 Masiceratidæ, new species from South America, 23, 61
Mastogenius, wing of, 50: 193
 Matusch, Ignaz, biography of, 24, 154
 Mating in Tarantulæ, 42, 289

- Maxillæ, phylogenetic comparison of, 31, 77
- Mayflies
 Heptagenine of North America, 41, 105
 Nuptial flight, 48, 379
- Mayfly
 genera, phylogeny of, 41, 55, 327
 new genus and species, 40, 365
- Mead, Marvin H., method of mounting insects, 22, 76
- Mead, T. L., collecting localities of, 42, 155
- Mealy bugs, gall midge enemies of, 41, 55
- Mechanitis*
 limnæa, 38, 317
 notes on, 32, 146
- Mecoptera
 affinities in, 39, 405
 new genera of, 39, 405
- Mediterranean fruit fly, attracted by various oils, 22, 240
- Megarhyssa lunator*, egg deposition, of, 42, 127
- Megauchomyia africana*, new genera and species, 36, 123
- Megalopygidæ, abdominal leg of, 7, 69
- Megalopygid genus *Trosia*, 7, 173
- Megilla maculata*, biology of, 15, 193
- Meitzen, Julius, notice of death, 24, 157
- Melampsalta kansa*, new species, 27, 340
- Melandryidæ, review of, 8, 166
- Melanoplus differentialis* in New York, 32, 215
- Melasis rufipennis*, notes on, 28, 151
- Melilotus alba*, insects of, 38, 43
- Melinea, study of, 35, 23
- Melipona
 comments on, 44, 1
 new variety, 44, 1
- Melitta satyriniformis*, 5, 34
- Members, list of, New York and Brooklyn entomological societies, 12, 193; 13, 52, 102
- Membracidæ
 eggs, parasites of, 19, 12
 mimicry, 20, 67
 new from Africa, 42, 339
- Membracidæ
 Africa, 40, 205
 Atymna, 46, 235
 classification
 American, 34, 295
 Old World, 39, 299
 Colombian Andes, 22, 275
 from New Jersey, 18, 164, 165
 gynandromorphic, 17, 165
 in Imperial Institute collection, 43, 427
 keys to tribes, genera, 39, 299
 new
 genera and species, 38, 89
 of neotropical, 38, 405
 Mexico, 43, 373
 neotropical species, 27, 267
 Peruvian, 48, 275
 South American species and records, 30, 1
 species, 34, 279; 35, 167; 36, 37, 43; 37, 11, 167, 171; 43, 427
 Australian, 34, 243
 China, 50, 61
 East Indies, 22, 234
 South America, 35, 159
 notes on South American, 37, 7
 old world, 42, 451; 47, 315
 parasitic castration in, 19, 194
 South America and Antilles, 36, 201
 revision of, 35, 183
 synonymical notes on, 38, 39
 synonymy of Buckston's Australian, 34, 207
- Memories, of Annie T. Slosson, 23, 85
- Menagier, de Paris, entomology of, 37, 421

- Merium, notes on, 25, 183
- Metabolism, insect, and temperature, apparatus for study of, 37, 25
- Metriocemus knabi*, in pitcher plant, 13, 69
- Mexican
- bean beetle, external morphology of, 38, 423
 - Hemiptera-Heteroptera new to the United States, 18, 34
 - insects, 42, 249
 - records of Doru, 22, 89
- Mexico
- ants of, 22, 37
 - cicada from, 44, 101
 - coccidæ from, 6, 165
 - coccoids on wild plants of, 39, 587
 - food plant catalogue of Coccidæ from, 5, 178
 - list of Cicindelidæ of, 11, 213
 - new
 - Membracidæ from, 43, 273
 - Phalangida from, 6, 181
 - Tortricidæ from, 15, 235
 - Texas, and, new Diptera from, 10, 136
- Miastor*, larvæ, 19, 200, 201
- Micrapate*, new species of, 6, 73
- Microclytus*, a correction, 26, 8
- Microdon*, studies on, 16, 202
- Microlepidoptera
- new
 - genera and species, 15, 134
 - records from New York, 39, 291
- Midges
- gall
 - new
 - species of, 19, 190; 21, 213; 25, 193; 27, 277; 29, 115
 - western, 24, 175
 - new, on pine and grass, 44, 7
- Migration
- Alabama argillacea*, 19, 259
 - Pyrameis cardui*, 34, 287
 - red admiral butterflies, 20, 293
 - Migrations of insects, 34, 199
 - Milichiniæ, synopsis of, 21, 219
 - Milkweed insects, 29, 123
 - Millipeds
 - a collection from
 - New Mexico, 49, 57
 - Texas, 49, 57
 - Mimicry
 - Apatela, 4, 81
 - membracid, 20, 67
 - protective, 5, 67
 - Miogryllus*, American species of, 23, 101
 - Miridæ
 - key to subfamilies of, 26, 40
 - new species of, 36, 189
 - Mistletoe ant, 20, 130
 - Misumena vatia*, protective coloration in, 13, 85
 - Mites
 - and a fly, 21, 274
 - four new injurious species, 12, 53
 - new species, 46, 109
 - rake-legged, new species, 44, 17
 - Mnasitheus zeteki*, new species, 39, 100
 - Molanna cinerea*, larva of, 10, 147
 - Mollusca, associated with fungi, 47, 13
 - Monarch butterfly, 50, 213
 - Monardia illinoiensis*, new, from cow dung, 43, 47
 - Money losses, due to insects, 48, 195
 - Morpho peleides insularis*, life history of, 40, 523
 - Morphological variations in *Callosamia promethea*, 42, 145
 - Morphology
 - Arotes amænus*, 48, 155
 - cave cricket, 44, 281
 - Cæloides dendroctoni*, 42, 297
 - external
 - Chrysopa perla*, 39, 1

- Colorado potato beetle, 36, 125
Hydrophilus obtusatus, 39, 191
 Mexican bean beetle, 38, 423
Protoplasma fitchii, 41, 1
 female reproductive system of
Incurvaria russatella, 41, 167
 head of trichopterous larvæ, 31, 31
 Morocco, wasps from, 39, 131
 Mosquito
 enemies of, in Colorado, 39, 151
 larvæ
 classification of, 14, 169
 descriptions of, 9, 177
 epistomal appendages of, 12, 175
 notes on, 12, 172, 243; 13, 26
 synoptic table of, 13, 22
 Mosquitoes
 abdominal appendages of, 13, 53; 13, 185
 activity of as related to temperature and humidity, 33, 163
 Brazil, 14, 57
 environment, 21, 55
 flower visitors, 15, 215
 new
 American, 15, 9, 100
 North America, 15, 213
 Panama Canal Zone, 15, 197
 Philippines, 10, 127; 11, 137
 notes on, 13, 107
 water plant and borax against, 37, 77
 Moss-mites
 intertidal, 42, 329
 Journal of N. American, 45, 353
 new species, 45, 353
 Moths
 new American, 6, 33
 notes on North American, 1, 20
 synonymical notes, 6, 33
 Moulting in Tarantulæ, 42, 289
 Mount Desert Island, Maine, insect food habit ratios of, 47, 155
 Mouse, white-footed parasitic fly on, 50, 45
 Mouth parts
 insects, 42, 227, 228
 morphology of coleopterous, 46, 245
 Muscidæ, 48, 335
 Coenosian and Limnophorine genera, 44, 187
Muscina stabulans, parasitic habits of, 50, 335
 Muscoid
 description, abbreviations for, 36, 169
 flies
 new genera and species, 20, 107
 striking character, 36, 83
 Muscoidea, new western and south-western species of, 23, 216
 Musculature, in *Panorpa nuptialis*, 49, 43
 Mutation, as factor in production of vestigial wings, 16, 45
 Mutillidæ, generic synopsis of, 7, 45
 Mycetophilidæ, new from N. America, 45, 387
 Mycomyia, new species of, 45, 393
 Myiology
 inside history of, 34, 69
 North American, inside history of, 33, 1
Mylocerus castaneus
 distribution in N. J., 48, 318
 hibernation of in N. J., 49, 138
 Mymar, in North America, 19, 92
 Mymaridæ
 new species of, 18, 233
 synonymic and descriptive notes on, 18, 233
Myochrous denticollis, injuring corn, 9, 127
Myrmecocystus lugubris, new species, 17, 98

- Myrmecophiles, 16, 68, 135, 202
 Myrmecophilous beetles, 19, 163
Myrmeleon blandus, 1, 76
 Myrmeleonidæ
 African, notes on, 21, 149
 tropical, new genera and species, 17, 1
 Myrmosidæ, generic synopsis of, 7, 45
Myromteras
 kuroiwa, generic reallocation for, 47, 39
 new species of, 38, 177
 review of, 38, 177
Myscelus epigona, remarks on, 33, 227

 Nabidæ, distribution of, 24, 308
 Names, common versus proper, 1, 1
 Natural histories of Thomas Boreman, 47, 213
 "Natural History of North Carolina," by John Brickell, 36, 185; 38, 313
 Nature's surgery, 21, 161
 Nebraska
 list of Syrphidæ and new species from, 15, 87
 new Mallophaga from, 10, 216
 Neckam, Alexander, naturalist of twelfth century, 35, 417
Necrophorus
 guttula, color varieties of, 28, 89
 hybridus, new species, 33, 216
 or *Nicrophorus*, 40, 391
 Negros Occidental, sugar cane insects of, 39, 577
Nemadus, new species of, 45, 335
 Nematinae, new species of, 6, 121; 29, 27
Nemathelminthes, associated with fungi, 47, 13
 Nematoceros Diptera, new from North America, 13, 56
 Nematode parasite of Japanese beetle, 43, 345; 44, 173

 Nemestrinidæ, notes on American, 42, 163
Nemobius
 changed to *Nomebius*, 26, 225
 new species of, 4, 101
 North American species of, 4, 99
Neoplectana glaseri, 43, 138
 experiments with on Japanese beetle, 43, 345
 media for, 48, 299
Neoborus amœnus, life history of, 24, 302
Neocletes crateracollis, new genus and species, 23, 56
Neoclaeon alamance, new genus and species, 40, 365
Neodiprion sertifer, 47, 124
Neogorpis, new genus, 32, 136
Neonympha areolatus, northern form of, 32, 105
Neopamphantus maculatus, new genus and species, 41, 533
Neosuris, new genus, 32, 133
Neotanaupodus tuberculatus, new genus and species, 33, 85
Nepa apiculata, habits of, 19, 99
Neurocordulia
 notes on, 37, 449
 virginiensis, 45, 250
Neuronina pardalis, notes on, 21, 163
 Neuropteroid insects, new, 11, 236
Neuroterus saltatorius, 20, 293
 New England, Ichneumonidæ of, 48, 155
 New Hampshire, list of Araneæ from, 6, 247
 New Harmony, Thomas Say's home in, 47, 104
 New Jersey
 Acantholyda erythrocephala in, 46, 326, 444
 additions to coleoptera of, 49, 285
 Andrena from, 9, 132
 butterflies of, 48, 47
 Cicindelidæ of Pine Barrens, 10, 236

- greenhouse insect fauna, 24, 144
 Lepidoptera from, 22, 332
Mylocerus castaneus in, 48, 318
 new lace-bug records, 44, 280;
 45, 408
 notes on little-known species of
 Scarabæidæ, 38, 139
 orchid calandrid in, 24, 92
 parasitic Hymenoptera from, 32,
 73
 Thysanoptera from, 47, 69
- New Mexico
 biological notes on Coleoptera
 from, 5, 149
 Bombycoid moths from, 2, 105
Diabrotica in, 4, 201
 millipeds from, 49, 57
 new species from, 4, 204, 207
 Philanthidæ of, 12, 84, 129
- New York
Acantholyda erythrocephala in,
 46, 438
 City, dragonflies of, 21, 11
 Coleoptera of, 28, 178
 Entomological Club, 45, 259
 Entomological Society
 condition of, 19, 1
 early days of, 26, 134
 history of, 26, 129
 list of members, 12, 192;
 13, 52, 102
 permanent fund of, 25, 197
 Hemiptera-Heteroptera of West-
 chester County, 16, 223
 list of
 capsids from, 13, 48
 insects, remarks on, 38, 135
 Pentatomidæ of, 11, 227
 Tabanidæ from, 46, 457
 Westchester Heteroptera,
 18, 22
 new
 caddisflies from, 34, 79
 Coleoptera from, 28, 14; 29,
 145
 records of
 Lepidoptera for, 40,
 385
 Microlepidoptera from,
 39, 291
 Notonectidæ of, 10, 230
 Odonata of, 3, 39; 5, 91
 Phalangida of, 2, 140
 new species Ceratopagonidæ
 from, 43, 283
 Sarcophaginæ of, 48, 127, 201;
 50, 215
 Siphonaptera from, revision of,
 41, 253
 State list of
 insects, 33, 10
 Lepidoptera, additions to,
 37, 41
 weevil, studies of, 26, 215
 Newark Entomological Society, head-
 quarters destroyed by fire, 15, 248
 Newfoundland Geometridæ, list of,
 15, 128
 Nichols, Henry Hobart, engraver of
 insects, 37, 439
 Nicodamus, systematic position of,
 37, 417
 Nicotine insecticidal unit charge,
 37, 513
Nicrophorus or *Necrophorus*, 40, 391
Nisoniades selma, 48, 116
Niscoscolopocerus apiculatus, new
 genus and species, 36, 25
 Nitidulidæ, new species of, 19, 115
Noctua, notes and descriptions of
 new forms, 6, 98
 Noctuid larvæ, descriptions of, 4, 145
 Noctuidæ
 boring larvae of, 10, 214
 catalogue of British Museum
 collection, notes on, 12, 92
 Cirphis pseudargyria complex,
 44, 239
 genera, of northeastern Amer-
 ica, 22, 1
 Hadeninæ, genotypes of, 45, 61,
 211

- larvæ of, little known, 33, 182
 new species, 7, 223; 10, 33; 11, 1, 188; 13, 188; 14, 9; 15, 107, 229; 16, 79; 17, 57; 18, 85; 19, 83, 133, 152
 Florida, 8, 173
 Tropical America, 6, 107, 141; 11, 230
- Noctuids, American, in British Museum, 15, 141
- Nomadidæ, new species from South America, 18, 208
- Nomenclature
 Amer. commission on, 50, 293
 formicid, 46, 1
- North Carolina
 Brickell's natural history of, 38, 313
 insect food habit ratios of, 47, 155
 notes on collecting in, 34, 351
 Orthoptera of, 22, 265
 tiger beetles from, 24, 154
- Noropsis elegans*, note on, 5, 31
- North America
 cicadas from, 47, 287
 new cicadas from, 49, 85
- Notaris*
 new species of, 14, 115
 North American species of, 14, 113
- Notodontidæ
 life histories of, 1, 22, 57
 new species of, 15, 230; 19, 18, 160
 unknown stages of, 4, 93
- Notonecta*
 in America, 13, 143
 new species of, 13, 151
- Notonectidæ of New York, notes on, 10, 230
- Nursery rhymes, entomology of, 46, 195
- Nycteribia antrozoi*, new from bat, 1, 79
- Nymphalidæ
 Anæa of Antilles, 49, 301
 Antilles, 50, 283
- new
 Brenthis, 48, 413
 subspecies, 50, 284-286
 notes on *Brenthis*, 45, 311
- Nymphulinæ of North America, 14, 77
- Nysson*
 new species of, 4, 10
 synopsis of species, 4, 10
- Oberea myops*, life history of, 37, 67
- Obituary
 Blanchard, Frederick, 21, 69
 Bradford, George Dexter, 2, 192
 Fall, Henry Clinton, 48, 33
 Goding, F. W., 42, 443
 Grossbeck, John Arthur, 22, 271
 Harris, Edward Doubleday, 27, 238
 Hulst, George D., 8, 248
 Johnson, W. G., 16, 189
 Joutel, H., 24, 242
 Kearfott, W. D., 25, 238
 Leng, Charles W., 49, 100, 189
 Linell, Martin, 5, 207
 Luetgens, August, 16, 52
 Matausch, Ignaz, 24, 154
 Palm, Charles, 25, 237
 Schaeffer, Charles, 50, 209
 Seifert, Otto, 19, 1
 Sleight, Charles E., 26, 47
 Slosson, Annie Trumbull, 34, 364
 Woodruff, Lewis B., 34, 23
 Zabriskie, J. L., 18, 127
- Obrini, reclassification of, 48, 367
- Ochodæus*
 new species of, 17, 30
 synopsis of, 17, 30
- Ochthebius attritus*, 21, 312
- Ochthiphilinæ, synopsis of, 21, 219
- Ocnerostoma piniariella*, 32, 173
- Octotemnus, new species of, 6, 91
- Odonata
 Biologia Centrali-Americana, 17, 39
 British Columbia, 23, 152

- hydrophytic environment, 21, 9
 New York state, 3, 39; 5, 91
 nymphs of, 35, 65
 skewness of thorax in, 11, 117
Odontomachus, subspecies of, 47, 125
Ecanthus pini, new, 2, 56.
Æstroidea, new from New Zealand
 and Malay, 42, 247
Æstromuscoid flies, new genera and
 species, 40, 439
Æta floridana, 5, 48
 notes on pupa of, 5, 127
 Ohio leafhoppers, notice of list of,
 37, 58
 Oils, attractiveness of various for
 Mediterranean fruit fly, 22, 240
 Okanagana, new species of, 24, 233
 Olethreutidæ, *Ecartema ferrifer-*
 anum, 46, 23
 Olethreutinae, new *Eucosma*, 45, 131
 Olfactory sense of cabbage butter-
 fly, 32, 166
 Oligoneurid from North America, 45,
 139
 Omus, forms of, 22, 78
 Oncerometopus, key to species of, 36,
 189
Oncideres
 quercus, notes on, 16, 32
 texana, life history of, 10, 15
Oncocnemis
 bakeri, new species, 13, 211
 notes and new species, 7, 37
Oniticellus, notes on, 1, 15
 Ontario, Coleoptera of, 27, 92
Onthophagus
 new species of, 22, 291
 review of, 22, 290
Ophiderma
 notes on, 25, 199; 28, 212; 31,
 88
 review of, 27, 249
Ophiogomphus johannus, nymph of,
 32, 37
 Orbis Pictus, entomology of, 40, 511
Orchelimum cruscolum, new species,
 16, 222
Orchestina saltitans, new species, 28,
 158
 Oregon
 Anthidiine bees from, 38, 9
 Buprestidæ of, 32, 186
 Oribatoidea
 American, 17, 116
 Fuscozetes in n. e. U. S., 43, 311
 Galumnà, taxonomy of, 42, 87
 Zetes species, 43, 51
 Oriental
 beetle, larval movement, 44, 413
 fruit moth
 cocoon parasites of, 40, 489
 hibernation quarters of, 36,
 435
 Origin
 geometrid moths, 3, 30
 insect wings, 24, 1
 Orr, John William, engraver of in-
 sects, 37, 440
 Ortalidæ
 notes and new species, 8, 21
 Orthocis, new species of, 6, 84
Orthoperus scutellaris, 34, 285
 Orthoptera
 eastern U. S., notes on, 32, 127
 Florida, 22, 96, 191; 23, 91
 North Carolina, 22, 265
 Paraguay, 12, 179
 Trinidad, 14, 135
 Virginia, 34, 27
 western attracted to lights, 46,
 339
 Oscinidæ
 new species of, 6, 44
 notes and descriptions, 6, 44
 Osminiæ, new genera and species, 12,
 22
 Ostomidæ, new genera and species,
 26, 190
 Otitidæ
 new genus and species in, 50,
 249
 notes on genus *Seioptera*, 50,
 195

- Ottolengui, R., collection of *Phytometrinæ*, 40, 438
- Ottolengua reticulina*, new genus and species, 4, 146
- Oviposition of semi-aquatic Hemiptera, 26, 12
- Ovipositing mechanism of *Tremex columba*, 43, 337
- Owl pellets and insects, 17, 49
- Oxytactor, bearing of in insect control, 39, 159
- Pacific Coast, Mallophaga from birds of, 10, 20
- Packard, A. S., estimate of, 25, 93
- Palm, Charles
 biography of, 25, 237
 portrait of, 25, 237
- Pamphila phylæus*, 19, 199
- Panama
 Canal Zone
 Hesperiidæ from, 39, 81
 new mosquitoes from, 15, 197
 Lepidoptera of, 28, 238
 new
 Thripidæ from, 43, 143
 Thysanoptera from, 41, 407
- Panchantantra, insects of, 33, 217
- Pamphila juba*, race *dodgei*, new race, 35, 175
- Panchlora cubensis*, rearing young of, 38, 85
- Panorpa nuptialis*, musculature of genitalia, 49, 43
- Pantala flavescens*, captured by *Anax junius*, 33, 189
- Papaipema latia*, notes on, 19, 88
- Paper
 Damage to by firebrat, 49, 357
 from wasps' nest, 46, 244
- Papilio*
 coridon, synonymy of, 49, 371
 crsphontes, 45, 402
 lavina, 50, 190
 marcellus, 26, 227
- notes on Ecuadorian butterflies, 50, 123
- philenor*, aberration of, 9, 82
- phocion*, synonymy of, 49, 371
- Papillons Exotiques, date of, 50, 189
- Paraclemensia*, new name, 12, 177
- Paraguay, Orthoptera from, 12, 179
- Paranotal theory, 24, 1
- Parasites
 Cecropia moth, 48, 259
 cocoon, of Oriental fruit moth, 40, 489
 Collecting in Philippines, 42, 368
 dipterous, of spiders, 45, 415
 effect of host size and sex ratio upon colonization, 47, 1
 Exartema feriferanum, 46, 23
 gall-flies, new, 20, 274
 goldenrod gall maker, 46, 169
 host size and sex ratio, 47, 1
 Hymenoptera, new, 11, 144
 Japanese beetle and relation to ants, 48, 93
 scale insects, records of, 45, 267
 Vespa, 2, 81
 white-footed mouse, 50, 45
- Parasitic
 habits of *Muscina stabulans*, 50, 335
 Hymenoptera
 geological history of, 18, 1
 phylogeny of Callimomidæ, 46, 355
- Paratheresia*, introduction in Louisiana, 47, 38
- Paratrioza cockerelli*, life history of, 38, 307
- Parcoblatta caudelli*, female of, 33, 188
- Parnassius apollo*, new localities for, in Asia Minor, 38, 468
- Pathogen of Japanese beetles, 48, 401
- Pear-slug, moults of, 20, 125

- Peck, Morton R., notice of death of, 39, 265
- Pelecopsidis, studies in, 43, 31
- Pelocoris femorata*, life history of, 11, 166
- Peltodytes, new species of, 20, 177
- Pennsylvania, Elateridæ of, 49, 233
- Pentatomidæ
 Long Island species, 20, 48
 New York
 list of species, 11, 227
 within 70 miles of, 11, 128
 note on, 11, 228
- Peranabrus scabricollis*, 13, 74
 anatomy of, 11, 183
- Perdita*, new species and records of, 37, 111
- Pericopidæ, origin of, 4, 68
- Periodical cicada, 21, 160
- Periplaneta americana*, nymphal development, 50, 263
- Pero grossbecki*, new species, 19, 90
- Perophora melsheimerii*, appendage of, 4, 92
- Peru
 new
 bees from, 22, 306
 Membracidæ from, 48, 275
- Petiver, James, Gazophylacii of, 35, 411
- Phalacrus politus*, notes on, 42, 319
- Phalangida
 new
 genera and species, 8, 199
 Mexico, 6, 181
 species and notes, 2, 145
 New York, 2, 40
 Siro kartabo, 45, 133
- Phalangids
 District of Columbia, 12, 256
 new, from California, 3, 66
 notes and new species from New York, 12, 253
- Phaloniinæ
 new species of, 15, 19
 review of, 15, 19
- Phanæus torrens*, note on, 21, 157
- Phasiidæ, new species from New York, 33, 121
- Philanthidæ, new species from New Mexico, 12, 84, 129
- Philippine
 ants, of genus *Ænictus*, 38, 193
 Islands, insect problems of, 39, 501
 new
 Hymenoptera from and list of, 12, 1
 mosquitoes, 10, 127; 11, 137
- Philippines
 collecting parasites in, 42, 368
 new
 forficulid from, 12, 108
 Phoridæ from, 17, 5
- Philobia*, new species of, 21, 186
- Philosamia* and *Callosamia* crossed, 15, 101
- Phiprosopus callitrichoides*, larva of, 11, 105
- Phlebotomus tiberius*, subspecies of, 49, 193
- Pholeus phalangioides*, reactions of, 22, 173
- Phoridæ
 new
 Philippines, 17, 5
 species, 16, 199
 Java, 23, 184
- Phosphorescent organs of insects, 4, 61
- Phryganidia californica*, 11, 125
- Phyciodes tharos*
 ab. *nigrescens*, new, 32, 110
 pascoensis, form *herse*, new, 32, 110
- Phycitinae, new species of, 8, 222
- Phylogenetic
 comparison of maxillæ, 31, 77
 origin of
 mandibles, 29, 63
 wings of insects, 24, 1
 study of abdominal segments, 25, 225

- Phylogeny of
 abdominal structures of insects,
 39, 323
 Callimomid genera, 46, 355
Grylloblattæ, 43, 97
Grylloblattidæ, 41, 127
 mayfly genera, 41, 55, 327
 terminal abdominal structures,
 37, 453
Phymatodes lengi, 19, 200
 Phytometrinæ, R. Ottolengui's col-
 lection of, 40, 438
 Physiologus, insects of, 33, 238
Physocnenum andreae, note on, 21,
 159
 Pieridæ
 notes on *Colias*, 45, 311
Pieris virginienis, life history
 of, 43, 139
Piezocoryns virginicus, new species,
 26, 11
 Pindar, Peter, entomology of his
 poems, 34, 231
 Pineapple mealy bug, gall midge
 enemy of, 41, 55
 Pine
 cone gall midge, 43, 48
 midges, new, 44, 7
 Pink katy-dids, 20, 294
 Pins, elbow, 11, 99
 Pitcher plant, chironomid in, 13, 69
Plagiognathus politus, early stages
 of, 23, 193
 Plague, insects as precursors of, 35,
 209
 Plants, as insect traps, 44, 257
Platypedia latipennis, new species,
 29, 54
Platypeza, new species and notes on
 Virginian species, 23, 213
 Platypterygidæ, note on, 3, 166
Platypus punctulatus, note on, 21,
 275
Platysenta videns, life history of, 9,
 12
 Plecoptera, new species of, 35, 109
 Pliny, entomology of, 34, 355
Plusia
 and allied genera, 10, 57
 generic subdivision of, 10, 79
 new species of, 10, 57
 Plusiinae, new species and races of,
 27, 117
Pæcilianthrax, new species of, 25, 67
Pæcilonota
 new species of, 30, 52
 review of, 30, 52
 Pointer, John, insect collection of,
 40, 95
 Poison ivy caterpillars, 12, 249
Polistes
fuscatus, rearing of, 48, 391
 South American forms, 48, 1
 U. S. and Canada, 48, 1
Polistomyia, 21, 147
 Polybiinae, new neotropical, 50, 295
Polycesta
cyaneous, new species, 41, 41
 synopsis of, 41, 37
 Polycetenidæ
 records of, 27, 261
Polydrusus decoratus, new species,
 31, 155
 Polyembryony, 42, 143
Polygerus
breviceps, slave raids of, 24, 107
lucidus
 deportation habit of, 37, 65
 slave-making foray of, 16,
 144
Polynemia
 new species of, 19, 12
 species described since 1898, 19,
 22
Popillia japonica, 45, 115
 conditions influencing sur-
 vival, 49, 65
 control by nematodes, 43,
 345
 diseases of larvæ, 43, 405
 future distribution of, 47,
 105

- mortality of larvæ, 49, 47
 progress of investigations, 46, 203
- Poplar leafhopper, 25, 218
- Populus leaf miner, 1, 76
- Porosagrotis orthogonia*, type locality, 46, 22
- Porto Rico, cicadas of, 36, 29
- Portrait of
 Fall, Henry Clinton, 48, 33
 Grossbeck, John Arthur, 22, 271
 Harris, Edward Doubleday, 27, 238
 Joutel, H., 24, 242
 Leng, Charles W., 49, 191
 Palm, Charles, 25, 237
 Say, Thomas, 39, 290
 Seifert, Otto, 19, 1
 Sleight, Charles E., 26, 48
 Slosson, Annie Trumbull, 34, 364
 Strecker, Herman, 9, 211
 Woodruff, Lewis B., 34, 23
 Zabriskie, J. L., 18, 127
- Potamanthus*
 North American species of, 35, 319
 rufous, new species, 35, 323
- Prehistory, entomological, 49, 298
- Primrose, evening, insects of, 28, 32
- Prionapteryx nebulifera*, 21, 313
- Prionocyphon limbatus*, life history of, 32, 79
- Proboscimyia*, No. American species of, 48, 335
- Proceedings of the Society
 See author index
 Bacon, A. L.
 Barber, H. G.
 Clausen, L. W.
 Daeke, E.
 Dickerson, E. L.
 Engelhardt, E. S.
 Joutel, L. H.
 Leng, C. W.
 Schaeffer, C.
 Sherman, E.
- Proceratium croceum*, behavior and habits of, 38, 121
- Proctotrypidæ, classification of, 10, 240
- Proctotrypoidea, classification of, 11, 28, 86
- Prodoxus*, review of species, 11, 102
- Pronuba*, review of species, 11, 102
- Protective coloration in spider, 13, 85
- Protoplasa fitchii*, external morphology of, 41, 1
- Psallus juniperi*, new species, 13, 49
- Psammocharidæ
 classification and descriptions of, 19, 219
 new species of, 18, 114; 22, 301
- Psaphidia thaxterianus*, note on larva of, 9, 84
- Pselaphidæ, food of, 40, 377
- Psephenus leonti*, note on, 2, 86
- Pseudanarta*, notes on, 16, 79
- Pseudococcus comstocki*, in New Jersey, 33, 237
- Pseudæpameibaphis*, new species, 46, 217
- Pseudocænusia*, new species of, 44, 206
- Pseudopyrellia cornicina*, life cycle of, 16, 15
- Pseudoscorpionida
 new species of, 3, 1
 notes on, 3, 1
- Pseudoscorpions
 new tropical, 17, 145
 notes on, 19, 65
- Psilopyga*, note on, 9, 86
- Psocidæ, new, 15, 162
- Psychidæ, new species, 9, 45
- Pteromalidæ, new genera and species of, 19, 175
- Pterophylla camellifolia*, in New York City, 28, 78
- Pterothysanid, African, 30, 73
- Pterygotan insects, phylogenetic study of, 25, 225
- Ptilinus*, new species of, 6, 62
- Ptinidæ, studies in, 6, 61

- Ptochiomera*, revision of, 36, 175
 Publication, scientific principles of, 45, 127
 Purchas, Samuel, his Theatre of Politicall Flying Insects, 34, 69
Pycnoscelus surinamensis, males of, 27, 108
 Pyralid, larvæ from Florida, description of, 9, 19
 Pyralididæ
 Acentropus in America, 46, 388
 new species, 14, 30, 107; 15, 110; 19, 161
 from Florida, 9, 49
 Pyralids, relationships of aberrant, 34, 331
Pyrameis cardui, migration of, 32, 121; 34, 287
 Pyrethrum
 degree of fineness and toxicity, 44, 317
 deterioration by light and air, 44, 317
 Pyromorphidæ, new species of, 18, 162
Pyrota mylabrina, anatomy of, 43, 1
Pyrhocoris apterus, in United States, 19, 111
 Pyrrhopyge, type of, 48, 405
 Pyrrhopyginæ
 new species of, 39, 417; 41, 265, 481
 studies in, 41, 265, 481; 42, 293
 Radio waves, effect on
 insect activity, 37, 59
 stored product insects, 39, 145
Raphia, notes on, 16, 79
 Red Admiral butterflies, migration of, 20, 293
 Refrigeration, effect on biology of
 Trichogramma, 42, 263
 Repellents, esters as, 42, 185
 Respiratory system of Carolina locust, 27, 19
Phagoletis suavis
 effect of humidity on emergence, 40, 497
 life history of, 40, 497
Rhizophagus, notes on, 21, 309
Rhodesiella, notes on, 27, 174
Rhodites gracilis, 26, 48
 Rhododendron, a new gall midge on, 47, 41
 Rhopalocera
 collecting in Florida, 28, 235
 New Jersey, 48, 47
 Nymphalidæ of Antilles, 50, 283
 serum diagnosis, 36, 165
 study of, 4, 107
 Rhynchophora
 eastern North America, 33, 87; 36, 235
 food habits of, 1, 36, 80
 Maine, 24, 307
 new
 genera and species, 30, 95, 113
 species of, 15, 75; 16, 213; 28, 161; 33, 87
 northeastern America, additions and corrections, 28, 161
 notes on, 30, 95, 113
Rhynchophorus
 beetle larvæ, 4, 118
 palmarum, 26, 225
Rhyncopterix salina, new species, 35, 53
 Roach, nymphal development of, 50, 263
 Robber flies
 killing bees, 38, 159
 two new, 42, 225
 Roberts, Christopher, notice of death of, 24, 236
 Robinson, Col. Wirt, notice of death of, 37, 176
 Rose-mallow, swamp, insects of, 27, 39
 Rubus, *aleurodes* on, 5, 96
 Rush weevil, life history of, 32, 196

- Russia, development of entomology in, 37, 153
- Salix*, tenthredinid gall on, 2, 102
- Salt marsh, insects of, 32, 93
- Samia californica*, note on, 4, 201
- Santo Domingo, new Tachinidæ from, 2, 78
- Saprinus dimidiatipennis*, taxonomic notes on, 42, 86
- Sarcophaga
 new species of, 24, 171
 niagarana, new species, 26, 28
- Sarcophagidæ, of New England, 24, 171
- Sarcophaginæ of New York, 48, 127, 201; 50, 215
- Saturnian caterpillar, producing sound, 12, 92
- Saturnians, Mr. Grote's remarks on, 5, 66
- Saturnid moth larvæ, used as food by California Indians, 20, 28
- Saturnidæ, new species from tropical America, 6, 140
- Saturniides, classification of, 5, 44
- Sawflies
 larvæ of, 8, 26
 new species, 5, 191
 from Alaska, 31, 163
- Sawfly larvæ, descriptions of, 5, 18, 190; 6, 121
- Say,
 Mrs. Thomas, 41, 547
 Thomas
 communism of, 35, 231
 home in New Harmony, 47, 104
 portrait of, 39, 287
- Scale insects, new records of, for U. S., 45, 267
- Scaphidiidæ, review of, 8, 51
- Scaphinotus*
 northeastern American species of, 22, 139
- ridingsii*, var. *monongahelæ*, new variety, 25, 34
- shoemakeri*, new species, 22, 143
- Scarabæidæ
 new species of, 15, 60; 27, 32, 223; 28, 208; 29, 162; 30, 154; 40, 183, 529; 41, 435
 notes on little-known species of New Jersey, 38, 139
 Serica sericea, life history of, 44, 11
- Scatophagidæ, new species of, 6, 160
- Scent glands of insects, 3, 110
 bibliography, 4, 26
- Schaeffer, Charles, biography, 50, 209
- Schrank's genera, 3, 168
- Schwarz, E. A., letters of, 37, 181
- Sciagraphia granitata oweni*, new variety, 15, 128
- Scientific publication, principles of, 45, 127
- Scopæus linearis*, new species, 27, 100
- Scopariinæ, of North America, 14, 77
- Scotogramma*, notes and new species, 7, 37; 11, 1
- Scotolemon brunnea*, new species, 10, 142
- Scotophilella
 new species of, 33, 70, 147
 North American species of, 33, 70, 147
- Seed infesting chalcid-fly from China, 37, 13
- Segmentation, spiral, in *Apantesis nais*, 40, 167
- Seifert, Otto
 biography of, 19, 63
 portrait of, 19, 1
- Seioptera*
 currani, 50, 196
 notes on, 50, 195
- Seminal receptacles, of Diptera, 33, 195; 34, 1
- Senna moth, 46, 320

Serica

new species of, 27, 32, 223; 28, 208; 29, 160; 30, 154; 40, 529; 41, 435

sericea, life history of, 44, 11
technique for dissection of, 43, 341

Sericine beetles, notes on five, 40, 379

Serological investigation of *Drosophila antigens*, 46, 401; 47, 219

Serphidæ, notes on and new species of, 27, 1

Serum diagnosis and Rhopalocera, 36, 165

Sesia

palmii, new species, 10, 126

sigmoidea, note on, 9, 190

Sesiidæ

new

Africa, 7, 170

genera and species, 1, 181

species of, 6, 240; 8, 254

Setæ

head, of lepidopterous larvæ, 4, 92

Seventeen-year cicada, 7, 212

Sex determination, 40, 275

Shah Abbas the Great, butterfly collecting by, 33, 187

Sheep pasture

Coleoptera from a, 40, 77

Diptera from a, 40, 77

Sherman, John D., Jr.

biographical notice, 49, 185

experiences in Europe, 39, 600

Siewers, Charles, entomological misfortunes of, 32, 122

Silis

new species of, 26, 161

review of, 26, 161

Silpha surinamensis, predaceous habits of, 23, 150

Silphidæ, new species of *Nemadus*, 45, 335

Silphinæ

observations on, 48, 233

studies of, 35, 331

Sinea

new species of, 9, 1

study of, 9, 1

Siphonaptera

notes and descriptions of new species, 6, 53

revision of New York list, 41, 253

Siro americanus, new species, 41, 49

Sitophilus

granarius, death feint of, 48, 37

oryzæ, death feint of, 48, 37

Slave

-making foray of shining amazon, 16, 144

raids of western Amazon ant, 24, 107

Sleeping habits of Hymenoptera, 10, 209; 11, 228

Sleight, Charles Edwin

biography of, 26, 47

portrait of, 26, 48

Slosson, Annie Trumbull

biography of, 34, 361

memories of, 23, 85, 93

portrait of, 34, 364

Slug caterpillars, life histories of,

3, 145; 4, 1, 167; 5, 1, 57, 167; 6,

1, 94, 151, 241; 7, 61, 202, 234;

15, 219; 22, 223

Smerinthinæ, notes on, 3, 132

Smerinthus geminatus, early stages of, 9, 89

Smiliâ camelus, varieties of, 18, 171

Smynthuridæ of Long Island, 7, 193

Smynthurus, new species of, 5, 33

Snout beetles, on holly bloom, 24, 92

Soap sprays, effect on plants, 45, 109

Somatic modification in *Drosophila*, 46, 553

Sonoran cicadas, 25, 203

Soronia decumana in Alabama, 20, 134

Sound, produced by

lepidopterous larvae, 13, 109

Saturnian caterpillar, 12, 92

South America

habits of butterflies in, 39, 167
 Membracidae of, 30, 1; 35, 159,
 183; 36, 201; 37, 7

new

cyphophthalmid from, 45,
 133
 Hesperiidæ from, 38, 149,
 455; 39, 523
 Masiceratidæ and Dexiidæ
 from, 23, 61
 Nomadidæ from, 18, 208

South American Cochlidiidæ, notes
 on, 6, 231

South Carolina, list of ants from,
 42, 353

Southall, John, "Treatise on
 Bugs," 39, 253

Spanish fly, John Bunce on, 38, 49

Specialists, 15, 238

Species

as seen by a geneticist, 50, 291
 concept, 43, 252
 foundation on reproductive and
 early-stage characters, 20, 167
 geographical distribution of, 49,
 114

Sphaeridium bipustulatum, 20, 68

Spharagemon saxatile, notes on, 2,
 144

Sphindidæ, studies in, 6, 61

Sphindus, new species of, 6, 93

Sphingidæ, larvæ of five Dominican,
 15, 50

Sphinx

gordius, early stages of, 9, 87
plebeius, variety of larva of, 3,
 58

Spider

egg sacs, parasitized by Mantis-
 pidæ, 46, 147
 genera, studies in, 43, 31

Spiders

aeronautic, 44, 43
 dipterous parasites of, 45, 415
 list of, from Long Island, 3, 77;
 4, 190

new

California, 4, 88

genera and species of Amer-
 ica, 39, 359

Long Island, 3, 76

species, 1, 123; 43, 255

notes on, 1, 123; 9, 182

poisonous nature of, 41, 402

protective coloration in, 13, 85

studies in

American, 38, 11; 39, 359;

40, 393; 42, 215; 43, 217;

43, 255; 46, 55

genus *Wubana*, 42, 215

synonymy of, 1, 125

webs, Diptera at home on, 20,
 143

wolf, 49, 112

Sprays, soap, effect on plants, 45,
 109

Stagmomantis floridensis, dark form
 of, 27, 341

Staphylinidæ

Creophilus villosus, biology of,
 46, 49

review of, 8, 51

Staten Island

Ammodonus fossor on, 25, 126

butterflies of, 1, 43

dragonflies of, 6, 195

insects of, 3, 140

17-year cicada on, 2, 38

Statira

new species of, 13, 179; 31, 184

synopsis of, 31, 184

Stegomyia calopus, copulation of, 15,
 13

Stelis, new species from California,
 49, 123

Stenomimus pallidus, note on, 23, 197

Stenopelmatus, review of, 24, 70

Stenopogon, new species in United
 States, 45, 291

Stephanodes in North America, 20,
 40

Stigmatomma pallipes, habits and
 behavior of, 36, 179

- Stoneflies, new species of, 35, 109
Strategus mormon, life history of, 32, 124
 Stratiomyid larvæ and puparia of n. e. states, 30, 141
 Streblidæ
 new species of, 33, 12
 world, synopsis of, 33, 11
 Strecker, Herman, obituary of, 9, 200
Stridulation of locusts, 4, 16
 Strychnine as food of *Araocerus fascicularis*, 14, 116
 Substances surrounding insects, effect of electromagnetic waves upon, 41, 241
 Sugar cane insects of Negros Occidental, 39, 577
 Supersonic waves, effect upon cricket, 35, 307
 Swift, F. R., bot fly reared in calf of leg, 35, 102
 Sycamore attacked by grape leaf-hopper, 32, 113
 Symbols for classifying insects, 42, 373
 Symphoromyia
 new species, 2, 53
 synopsis of, 2, 53
Syncalypta spinosa in North America, 25, 128
Syntomeida epilais, larva of, 4, 72
 Syntomidæ, new species, 15, 266; 7, 174; 9, 40
 from tropical America, 6, 138
 Syrphidæ
 distribution of, 20, 139
 hydrophytic area, 21, 66
 list of
 Long Island, 5, 40
 Nebraska, 15, 87
 new species from Nebraska, 15, 87
 studies of, 18, 53
Syrphus
 arcuatus, studies of, 18, 53
 perplexus, new species, 18, 55
- Systema Entomologiæ, date of, 50, 189
 Tabanidæ
 abundance at Babylon, N. Y., 47, 311
 additions to N. Y. list of, 46, 457
 Chrysops, biology and taxonomy, 44, 51
 hydrophytic area, 21, 63
 new species from Yucatan, 39, 533
 synopsis of, 44, 125
 Tachinidæ
 new
 genera and species, 3, 97
 Santo Domingo, 2, 78
 New York, 33, 121
 notes, 21, 301
 and descriptions, 3, 49
 synopsis of Doryphorophaga, 43, 387
Tachycellus
 affinities of, 13, 169
 new species of, 13, 169
 Tahiti, *Lasius claviger* in, 19, 262
 Tanyderidæ, notes on, 41, 1
Tanyptremna, revision of American species of, 22, 205
Taracticus, revision of, 46, 179
 Tarantula studies, 46, 31
 Tarantulæ, moulting and mating in, 42, 289
 Tarantulas, burrowing, 49, 112
 Taste sensitivity of *Dolichovespula arenaria*, 49, 367
 Taxonomic
 notes on Chloropidæ, 46, 417
 relationships of *Drosophila*, 48, 265
 value of internal structure in Cyrtacanthacrinæ, 44, 345
 Taxonomy
 aspects of, 48, 245
 responses to environment, 47, 145

- Technical terms, misuse of certain, 22, 248
- Technique for dissection of *Serica*, 43, 341
- Tegenaria lapicidinarum*, new species, 42, 2
- Temperature
and codling moth activity, 36, 147
as factor in activity of *Tiphia popilliavora*, 39, 555
- Tennessee, new *Erigoninae* from, 33, 170
- Tenthredinid gall on *Salix*, 2, 102
- Tenthredinidæ
descriptions of larvæ, 5, 18, 191
new species of, 5, 190; 16, 103
- Tenthredo*, new species of, 5, 103; 31, 107
- Teriocolias*
andina, new species, 36, 81
phylogenetic study of, 36, 113
- Termes flavipes*, 1, 89
quiescent stage in development of, 19, 256
- Termite, queen, 22, 73
- Termites, 1, 89
New York region, 42, 243
- Tettiginæ, new species from North America, 3, 14, 107; 7, 198
- Tettigoniidæ, *Ceuthophilus brevipes*, morphology of, 44, 281
- Texas
ants of, 44, 155
cicadas of, 49, 165
coccoids on wild plants of, 39, 587
collecting bees in, 25, 187
Diptera of, 6, 50
millipeds from, 49, 57
new
Diptera and notes from, 12, 31; 5, 171
fungus-growing ants from, 19, 245
Mexico (and) Diptera from, 10, 136
weevil from, 30, 128
- Thanaos*
ausonius, specific validity of, 14, 125
funeralis, life history of, 31, 175
- Theatre of Political Flying Insects, 34, 69
- Thecla*
damon, habits of, 9, 26
muiri, identity of, 19, 86
synonymy in, 15, 130
- Theobald, F. V., review of his *Culicidæ* of World, 15, 238
- Theophrastus as an entomologist, 46, 223
- Therevidæ
new
genus and species, 6, 187
species of, 2, 97
revision of, 2, 97
- Theridiidæ
new species of, 35, 147
- Thermobia domestica*
ability to damage paper and fabrics, 49, 357
biology of, 41, 557
- Thoreau, Henry David
bibliography of, 47, 163
insects of his writings, 35, 1
- Thorley, John, 45, 148
- Thripidæ, new from Panama, 43, 143
- Thrips, 47, 69, 83
- Thyanta calceata*, resurrection from synonymy, 19, 108
- Thyatiridæ, new species of, 18, 160
- Thynnidæ
Australian, habits of, 43, 19
generic synopsis of, 7, 45
- Thysanoptera
Long Island, N. Y., 47, 83
New Jersey, 47, 69
new
Florida and Louisiana, 23, 121

- species, 35, 123; 44, 81; 47, 69
Panama, 41, 407; 43, 143
- Tibicen*
inauditus, 27, 108
robinsoniana, new species, 30, 41
- Tibicina cassinii*, belated, 27, 341
- Tiger beetles, from North Carolina, 24, 154
- Tineid moths, notes on, 12, 178
- Tineina
new
American, 8, 234
genera of, 10, 89
species of, 16, 167
notes on North American, 10, 89
- Tineoidea, new, 11, 145
- Tiphia*
new
Asia, 45, 269
species from Eastern Asia, 43, 395
popilliavora, temperature as factor in activity of, 39, 555
- Tipulidæ
new species, 9, 97; 22, 205; 24, 118
Canada, 37, 49
Colombia, 21, 193
Costa Rica, 22, 116
Cuba and Jamaica, 34, 223
neotropical, 8, 182; 35, 265; 37, 89, 395; 39, 109; 46, 327; 50, 135, 251
records (and), 27, 132; 28, 1; 35, 55; 36, 47, 355; 37, 49; 38, 109; 48, 105; 49, 139, 345
United States and Canada, 41, 91
terminal abdominal segments of, 11, 177
venational variation in, 20, 36
- Tissue, insect, aerobic nature of, 26, 1
- Ticks
disease transmission and, 47, 95
in ears of horses, 1, 49
- Tomato psyllid, life history of, 38, 307
- Tortilia viatrix*, 46, 320
- Tortricidæ
new
Florida, 9, 49
Mexico, 15, 235
species of, 14, 108; 16, 167
- Tortricidia fiskeana*, description of larva, 15, 18
- Townsend, C. H. T.
critical remarks on, by W. R. Walton, 22, 159
estimate of Aldrich, by, 33, 1
remarks of, on workers in Muscoidean flies, 21, 301
- Townsend's inside history of North American Myiology, 34, 69
- Tracheæ, electron micrographs of, 50, 147, 245
- Traches*, in North America, 28, 136; 31, 59
- Trap, for Japanese beetle, 39, 593
- Traps, light, for Asiatic garden beetle, 44, 261
- "Treatise of Buggs," by John Southalls, 39, 253
- Tremex columba*, ovipositing mechanism of, 43, 337
- Trichiopoda, 21, 147
- Trichodes nuttalli*, 23, 254
- Trichogramma*
effect of refrigeration on biology of, 42, 263
number of species in United States, 38, 1
pretiosa
habits and hosts of, 15, 117
notes on, 15, 57
- Trichogrammatidæ
new genera and species, 19, 184
- Trichopodopsis
new genera, 21, 147

Trichoptera

- immature stages of, 23, 201
- metamorphotype method, 46, 435
- new, 15, 162

Trichopterous larvæ, morphology of head of, 31, 31

Trichotaphe iothalles, new from New York, 47, 159

Trigona cupira, gyandromorphic specimen of, 37, 145

Trimerotropis huroniana, distribution of, 37, 31

Trinidad

Erycinidæ and Lycænidæ from, 22, 152

new Hesperiidæ from, 39, 523

Orthoptera of, 14, 135

Tritomidæ, review of, 8, 51

Trogophlæus weissi, new species, 32, 71

Trogosita virescens, new variety of, 20, 70

Trosia obsolescens, new species, 7, 173

Trox unistriatus, death-feint of, 48, 303

Trypetidæ

new species and notes, 7, 177; 7, 259

notes on, 8, 47

revision of, 31, 119

Tutaibo, studies in, 38, 15

Tychius picirostris, 23, 197

Tyloclerma foveolatum, egg parasites of, 17, 169

Typhlocyba comes, attacking sycamore, 32, 113

Ultraviolet, and insects, 32, 195

Umbonia crassicornis, injurious, 38, 47

United States, *Polistes* in, 48, 1

Uranotenia sapphirina, life history of, 9, 179

Utah, new cicadas from, 23, 11

Utetheisa

bella, var. *nova*, 19, 196

galapagensis, position of, 49, 101

Vaccinium corymbosum, chalcidoid galls on stems of, 35, 253

Vancouver Island, Lepidoptera of, 2, 31

Vanessa

antiopa, oviposition of, 8, 181

millberti, 19, 198

Van Leeuwenhoek, Anthony, entomology of, 36, 99

Vermin killer, 45, 403

Vespa

crabro, nest of, 6, 199

parasites of, 2, 81

Vespidæ

new neotropical Polybiinæ, 50, 295

Polistes in U. S., Can. and So. Amer., 48, 1

rearing *Polistes fuscatus*, 48, 391

taste sensitivity in, 49, 367

Veterinary entomology of 16th century, 37, 159

Virginia

beetles from, 26, 30

cicadas of, 30, 36

corn earworm moth in, 48, 305

Dermaptera and Orthoptera of, 34, 27

new genus of *Cochlidionidæ* from, 7, 208

notes on

Cicadas from, 46, 449

collecting in, 34, 351

species of *Platypeza* from, 23, 213

Walckenaer, notes on spiders of, 9, 182

Walker, E. M., reply to by G. C. Crampton, 43, 97

- Walton, W. R., critical remarks of,
on C. H. T. Townsend's work, 22,
159
- Wasp nests, paper from, 46, 244
- Wasps
and flies killing cicadas, 32, 113
folded-winged from Morocco,
39, 131
- Water beetles, and fish culture, 33,
113
- Weeks, Archibald, notice of death
of, 36, 196
- Weevil, new, from Texas, 30, 128
- Weevils, parasite of eggs of, 39, 171
- West
Indian cicadas, notes on, 43, 173
- Indies
cicadas from, 47, 287
Coleoptera of, 22, 180
new
encyrtid from, 24, 232
Forficulidæ from, 15,
166
Virginia, notes on cicadas from,
46, 449
- Whirligig beetles, sun-bath of, 7, 222
- White ant, ravages of, 1, 89
- Wing
folding patterns of Coleoptera,
34, 42, 91
venation
of *Chrysochus auratus*, 42,
65
principles of, 43, 113
- Wings
development
in beetles, 12, 237; 13, 5
Lepidoptera, 8, 1
mastogenius, 50, 193
origin of, 12, 237; 13, 5
vestigial, mutation as a factor
in production of, 16, 45
- Witchcraft and insects, 38, 127
- Wolcot, John, see Pindar, Peter, 34,
231
- Wood engravers of insects, 36, 421;
37, 439
- Woodhouse, James, 36, 296
- Woodland cave cricket, morphology
of, 44, 281
- Woodruff, Lewis Bartholomew
bequest of, to Society, 35, 104
bibliography of, 34, 24
biography, 34, 23
portrait of, 34, 23
- Woods, moist, insects of, 30, 169
- Wotton, Edward, 35, 194
- Writing, entomological, plea for
more clarity, 50, 199
- Wubana, studies in, 42, 215
- Wurster, C. William, death of, 43,
247
- Xanthæcia buffalænsis*
larval habits of, 24, 86
notes on, 19, 88
- Xanthopastis timais*, larva of, 11,
104
- Xenodusa*
notes on, 19, 163
cava, larva of, 19, 163
- Xestocis*, new species of, 6, 85
- Xiphidium nemorale*, note on, 2, 192
- X-rays, effect on *Callosamia pro-*
methea, 42, 145
- Xylocopa*, review of, 24, 196
- Xylotrechus shefferi*, new species,
33, 224
- Yale Dominica expedition, Attidæ
of, 22, 329
- Yucatan, new Tabanidæ from, 39,
533
- Yponomeuta atomocella*, new species,
10, 208
- Zabriskie, J. L.
biography, 18, 127
notice of death, 19, 130
portrait of, 18, 127
- Zetes* of N. E. United States, 43, 51
- Zeugonyx sabinae*, new genera and
species, 30, 128

copy 1

SMITHSONIAN INSTITUTION LIBRARIES



3 9088 00833 6570